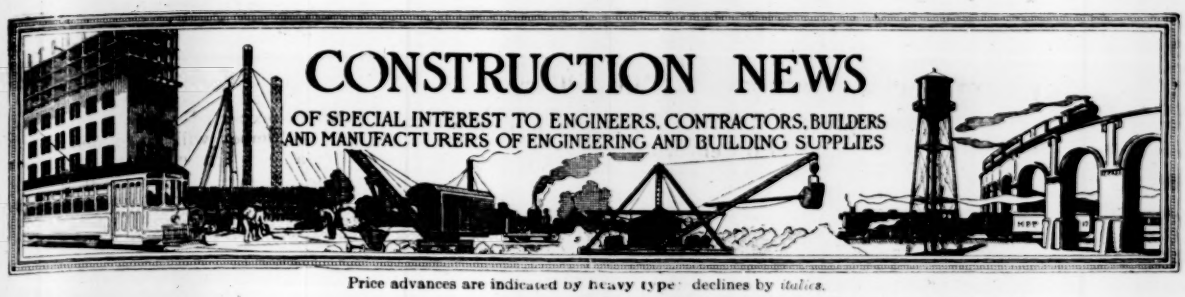

CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by heavy type; declines by *italics*.

PIG IRON—	Current	One Month Ago
CINCINNATI		
No. 2 Southern	**$30.35**	$30.35
Northern Basic	**27.55**	27.55
Southern Ohio No. 2	**28.55**	28.25
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	***31.90***	32.50
Southern No. 2 (silicon 2.25 to 2.75)	***33.95***	34.90
BIRMINGHAM		
No. 2 Foundry	**26.25**	25.75
PHILADELPHIA		
Eastern Pa.	*30.65*	31.90*
Virginia No. 2	*30.85*	33.25†
Basic	**30.90**	29.65*
Grey Forge	**30.90**	29.65*
CHICAGO		
No. 2 Foundry Local	26.75	26.75
No. 2 Foundry Southern	*32.00*	33.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	**28.15**	26.25
Basic	**27.15**	25.75
Bessemer	**29.35**	29.35

* F. o. b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$45.00	$63.00	$45.00	$65.00
Standard openhearth rails	47.00	65.00	47.00	67.00
Light rails, 8 to 10 lb	2.58½*	3.13½*	2.83½*	3.13½*
Light rails, 12 to 14 lb	2.54*	3.09*	2.79*	3.09*
Light rails, 25 to 45 lb	2.45*	3.00*	2.70*	3.00*

*Per 100 lb.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				San
	Current	One Year Ago	Chicago	St. Louis	Francisco
Standard spikes, ⅝-in. and larger	$3.35	$3.90	$4.27	*$4.44*	*$5.65*
Track bolts	4.35	4.90	5.17	Premium	*6.65*
Standard section angle bars	3.00	3.25	4.22	Premium	4.60

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In by 8 Ft.
Chicago	Plain	$1.48	$1.33
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.72	1.92

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.70	No. 1	$0.55
No. 2	.80	No. 2	.65
No. 3	.90	No. 3	.75
No. 4	.98		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note.—Add 36c. each for treatment.

PIPE

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	47%	*57.5%*	45%
2½ to 6 in. lap welded	42%	*53.5%*	41½%
	Galvanized		
	New York	Chicago	St. Louis
¼ to 3 in. butt welded	31%	44%	30½%
2½ to 6 in. lap welded	27%	41%	27½%

Malleable fittings, Class B and C, from New York stock sell at +15% list prices. Cast iron, standard sizes, 10% off.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York						
	Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4 in.	*$55.70*	$60.70	$64.35	*$54.80*	*$48.00*	*$72.50*	*$59.00*
6 in. and over	*52.70*	57.70	61.35	*51.80*	*45.00*	*69.55*	*56.00*

Gas pipe and 16-ft. lengths are $1 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$35.00	$22.50	$30.00	.....	$33.44
4	51.00	51.00	27.00	40.00	$45.00	50.16
5	65.00	65.00	45.00	50.00	65.00	62.70
6	90.00	90.00	55.00	60.00	90.00	83.60
8	130.00	130.00	100.00	80.80	150.00	143.76

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	*$0.081*	$0.111	.....	*$0.09*	$0.09	$0.132
4	*.081*	.....	.....	.09	.15	.132
5	*.1215*	.1665	.....	*.135*	.1875	.207
6	*.1215*	.....	$0.16	*.135*	.225	.207
8	*.189*	.259	.21	*.21*	.3475	.2875
10	*.283*	.3885	.29	*.315*	.45	.4025
12	*.365*	.4995	.37	*.405*	.60	.5175
15	*.480*	.666	.56	*.54*	.9375	.7475
18	*.675*	.925	.91	*.875*	1.275	.9775
20	*.81*	1.11	1.14	*1.05*	1.71	1.15
22	*1.08*	1.48	1.46	*1.40*	.....	1.495
24	*1.215*	1.665	1.56	1.80	2.125	1.725
27	*2.015*	2.47	1.90	2.75	.....	2.5875
30	*2.332*	2.736	2.57	3.45	.....	3.1625
33	*2.79*	3.42	3.09	4.00	.....	4.025
36	*3.18*	3.895	3.37	4.35	.....	4.60

	3	5	8	12	24	36
Boston	$0.093	$0.1395	$0.217	$0.4185	$1.395	$4.6125
St. Paul	.12	.18	.28	.45	2.00	4.75
Denver	.105	.16	.25	.425	1.575	.....
Seattle	.15	.....	.3375	.64	2.00	.....
Kansas City	.12	.18	.25	.50	1.80	4.60
Los Angeles	.0825	.1375	.2475	.44	1.50	.....
New Orleans			50 per cent. off list			
Detroit	.078	.117	.182	.351	1.35	4.10
Atlanta			56 per cent. off list			
Montreal	.30†	.45†	.70	1.35	4.50	7.20†

14-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

	Current	One Month Ago
New York, 45-65% asphalt	$0.05	$0.06½
New York, liquid asphalt	.06½	.07½
New York, binder	.07	.07½
New York, flux	.05	.06½
St. Louis, 40% asphalt	.06	.....
Chicago, 15-20% asphalt	.10	.10
Chicago, 100% dust layer	.11	.11
Dallas, 40-50% asphalt	.09	....
Dallas, 60-70% asphalt	.10	.10
San Francisco, 75-95% asphalt, per bbl.	2.10	2.10

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	$20.00	$16.00
Chicago	Mexican	*31.00*	*31.00*
San Francisco	California	17.00	13.75
Dallas	Texaco and Mexican	32.00	30.00
Seattle	D grade	23.10	.....
Denver	Trinidad	**45.00**	.....
Denver	California	38.00	.....
St. Paul	Mexican	.....	**21.00**
Kansas City	Mexican	**28.00**	**26.00**
St. Louis	Stanolind	24.90	13.40
Los Angeles	E grade	.....	13.50
Detroit	Trinidad	32.00	.....
Detroit	Petroleum	.....	20.00

PAVING STONE—

Chicago	About 4x8x4 dressed	2.45	sq.yd.
	About 4x8x4 common	*2.20*	sq.yd.
San Francisco	Basalt block 4x7x8	57.75	per M
Kansas City	Limestone	2.75	sq.yd.
Boston	5-in. granite	110.00	per M
St. Paul	Sandstone	1.75	sq.yd.
Atlanta	No. 1 granite	1.70	sq.yd.
Detroit	Small granite	2.50	sq.yd.

FLAGGING—

New York	Bronx	$0.20	sq.ft.
	Manhattan	.21	sq.ft.
	Queens, 5 ft. square	.20	sq.ft.
	5x20-in. cross-walk	.70	lin.ft.
Chicago	18 in. wide	*.70*	lin.ft.

WOOD BLOCK PAVING—	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.25
New York	4	16	3.50
Chicago	4	16	3.10
Chicago	3½	16	2.95
Chicago	City specifications		3.10
St. Louis	3½	16	2.25
St. Louis	4	16	2.50
St. Louis, Minneapolis spec.	3½	..	1.94
St. Louis, Minneapolis spec.	4	..	2.25
Seattle	4	16	2.55
Kansas City	4	16	3.00
St. Paul	3½	..	*2.13*
Dallas	3½	18	3.17
Dallas	4	18	3.56
New Orleans	3½	16	2.63
New Orleans	4	16	3.00

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00	$2.00	$2.00	$2.00	$1.25	$1.25
Denver	1.60	1.50	1.60	1.50	1.25	1.05
Chicago	*1.65*	1.40	1.85	1.40	1.35	1.30
Kansas City	2.50	2.15	3.00	2.60	1.00†	.80
St. Louis*	1.76	.90	1.82	.90	1.68	.80
Seattle	1.25	1.00	1.25	1.00	1.25	1.00
Dallas	....	2.00	....	2.00	....	1.40
St. Paul	1.25	1.00	1.35	1.40	.60	.50
San Francisco	1.15	1.00	1.15	1.00	1.15	1.00
Boston	1.65	1.70	*1.65*	1.95	*1.70*‡	1.70
New Orleans	2.75	....	2.75	....	1.50	....
Los Angeles	1.02	.85	1.02	.85	.70	.65
Atlanta	*2.30*‡	2.00	*2.30*‡	2.35	*1.00*‡	*.75*
Montreal	1.20‡	....	....	....	1.40‡	....
Detroit	1.90	....	1.90	....	1.80	....

*Fine white sand, Pacific and Ottawa per ton, $6. †Kaw River sand is $1.50 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.65-1.75	$1.60	$1.75-1.85	$1.75
Chicago	1.60	1.20	1.70	1.20
St. Louis	1.35	1.08	1.35	1.08
Dallas	2.25	1.51	2.25	1.55
San Francisco	1.15	1.00	1.15	1.00
Boston	3.00*	1.75	3.00*	1.75
St. Paul (lime)	1.15†	1.00	1.25	1.10
St. Paul (trap)	1.60	....	1.80	....
Denver	....	1.50	1.60	1.50
Kansas City	1.90	1.60	2.00	1.70
Seattle	1.50	1.10	1.50	1.10
Atlanta	2.35*	2.00	.60*	2.35
Los Angeles	1.12	1.05	1.12	1.15
New Orleans	5.00	....	5.75	....
Montreal	1.75	....	2.00	....
Detroit	1.20	....	1.20	....

*Per ton at crusher. †Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in., respectfully.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17.50	$14.50	$2.90	$2.65
Kansas City	21.00	....	2.30*	2.20*
Chicago	18.00	17.50	1.80*	1.10*
St. Louis	22.00	18.00	....	1.75*
Boston	22.75	18.25	3.65	3.30
Dallas	2.25*	1.25*	....	....
San Francisco	19.00	....	....	2.00
St. Paul	23.00	18.00	*1.50**	*1.40**
New Orleans	....	....	1.90*	2.05*
Atlanta	....	18.50	....	1.50*
Montreal	20.00	20.00	15.00‡	15.00‡
Denver	....	....	26.25‡	2.50*
Seattle	25.00	....	....	2.75*
Los Angeles	....	....	3.05†	2.80†

* 200-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.
NOTE—Refund of 10c. per barrel.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., exclusive of bags:

St. Paul (Austin)	*$1.45*
Kansas City (Ft. Scott)	1.40
New Orleans	2.52

PORTLAND CEMENT—Current prices are for barrels in carload lots, without bags, to contractors:

	Current	One Month Ago Without Bags	One Year Ago With Bags
New York	$2.30	$2.30	$2.59
Jersey City	2.27	2.27	2.50
Boston	*2.42*	2.57	2.81
Chicago	2.00	2.00	2.36
Pittsburgh	2.05	2.05	2.46
Cleveland	2.32	2.32	2.59
Detroit	2.08	2.08	2.55
Indianapolis	2.27	2.27	2.59
Toledo	2.12	2.12	2.59
Milwaukee	2.11	2.11	2.48
Duluth	2.10	2.10	2.51
Peoria	2.12	2.12	2.48
Cedar Rapids	2.18	2.18	2.60
Davenport	2.14	2.14	2.55
St. Louis	*2.20*	2.40	2.60
San Francisco	2.40	2.40	2.80
New Orleans	*2.44*	2.70	....
St. Paul	2.20	2.20	2.68
Denver	2.67	2.67	3.39
Kansas City	2.26	2.26	2.54
Seattle	2.53	2.53	2.75
Dallas	2.03	2.03	2.60
Atlanta	2.60	2.60	3.60
Los Angeles	2.78	2.68	2.30
Montreal	2.50	....	....
Detroit	2.20	....	....

NOTE—Bag charge is generally 15c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH x 4-INCH MESH

Style Number	Sectional Square Inches per Ft.	Area Width	Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032		$0.92	$1.16	$0.98	$0.99	$1.13	$1.32
049	0.049		1.18	1.48	1.26	1.26	1.43	1.67
068	0.068		1.44	1.86	1.53	1.56	1.79	2.06
093	0.093		1.85	2.39	1.97	2.00	2.41	2.65
126	0.126		2.28	3.02	2.43	2.47	2.92	3.28
153	0.153		2.72	3.59	2.90	2.95	3.48	3.93
180	0.180		3.12	4.13	3.33	3.39	3.99	....
245	0.245		4.12	5.44	4.40	4.47	5.27	....
287	0.287		4.76	6.29	5.08	5.16	6.10	6.86
336	0.336		5.52	7.30	5.89	5.99	7.06	.....
395	0.395		6.40	8.45	6.83	6.94	8.19	.....

PAVING

036P	0.036	$0.71	$0.92	$0.76	$1.77	$0.80
053P	0.053	1.00	1.28	1.06	1.08	1.12
072P	0.072	1.26	1.66	1.34	1.37	1.40
097P	0.097	1.62	2.12	1.73	1.76	1.80
049R	0.049	1.00	1.28	1.06	1.08	1.12
067R	0.067	1.26	1.65	1.34	1.37	1.40
089R	0.089	1.62	3.11	1.73	1.76	1.80

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.
Galvanized is about 10% higher.
NOTE—New York Warehouse price is about 15% lower than given above, owing to mill decrease.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	*$29.10*	$30.97	$31.00	*$29.00*	$34.00	*$33.00*
26	250	*30.45*	32.03	32.00	*30.00*	35.00	*35.00*
25	300	*31.90*	33.19	33.25	.....	37.00	*37.00*
24	340	*33.50*	34.30	34.50	*33.00*	40.25	*40.00*
22	450	*36.60*	36.80	....	.....	.....	*42.00*

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	New York One Year Ago	Chicago	St. Louis	Dallas	San Francisco
¾ and larger	$2.35	$3.37	$4.09½	*$3.37*	$3.69	*$4.50*	$4.60
⅝	2.40	3.42	4.14½	*3.42*	3.74	*4.55*	4.65
½	2.45	3.47	4.19½	*3.47*	3.79	*4.60*	4.70
⅜	2.60	3.62	4.34½	*3.62*	4.04	*4.75*	4.85
¼	2.85	3.87	4.59½	*4.87*	4.19	*4.95*	5.10

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
¾ in. and larger	$2.45	$2.45	*$4.25*	⅝	$2.70	$2.70	*$4.35*
⅝	2.50	2.50	*4.30*	½	2.95	.....	*4.70*
½	2.55	2.55	*4.40*				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$15.00	$15.00	$10.25	No Quotations	
Chicago	12.00	12.00	8.00	.....	.....
St. Louis, selected	16.00*	16.00	14.00	$26.00	.....
St. Louis, salmon	10.00	10.00	9.00	.....	.....
Denver	12.00†	12.00†	10.00	.....	.....
Dallas	.....	16.07	10.50	.....	.....
San Francisco	12.50	12.50	10.00	.....	.....
Boston (on job)	18.00	18.00	14.00	30.00	45.00
New Orleans	*16.25*	18.00	.....	*17.90*	.....
St. Paul	10.25	10.25	8.60	30.00	36.50
Kansas City	15.00	14.00	11.00	52.00	.....
Seattle	15.00	15.00	12.00	36.00	.....
Atlanta	15.00	.....	14.00	.....	.....
Los Angeles	12.50	12.50	7.00	.....	.....
Montreal (plastic)	14.50	.....	.....	70.00	.....
Detroit	13.50	.....	.....	36.00	.....

* Hard brick, $14. † Salmon is *$10* in Denver.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	*$0.11475**	$0.09	$0.09	$0.08	$0.1125	$0.1072	.....
6x12x12	*.153**	.12	.112	.105	.15	.1474	$0.1512
8x12x12	*.204**	.16	.144	.15	.....	.2010	.1944
10x12x12	.....	.....	.168	.173	.....	.2546	.2268
12x12x12	.....	.....	.208	.208	.....	.3082	.2916

*Delivered below 72nd St.

	4x12x12	8x12x12	12x12x12
Boston	$0.10	$0.20	$0.30
St. Paul	.056	.11	.162
Kansas City	.0786	.15	.205
Denver	.125	.18	.25
Seattle	.09	.175	.30
Atlanta	.10	.13	.21
Los Angeles	.082	.154	.236
New Orleans	.165	.22	.325

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pitts-burgh	New York Cur-rent	New York 1 Yr. Ago	St. Louis	Chi-cago	San Fran-cisco	Dallas
Beams, 3 to 15 in.	$2.25	$3.47	$4.195	$3.54	$3.47	$4.70	$4.50
Channels, 3 to 15 in.	2.45	3.47	4.195	3.54	3.47	4.70	4.50
Angles, 3 to 6 in., ¼ in. thick	2.45	3.47	4.195	3.54	3.47	4.70	4.50
Tees, 3 in. and larger	2.45	3.52	4.195	3.54	3.47	4.70	4.50
Plates	2.66	3.67	4.445	3.54	3.67	4.90	4.70

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Chicago	St. Louis	San Francisco	Dallas
¾ in. and larger	$4.20	$5.05	$6.095	*$4.72*	*$4.79*	$6.05	$6.05

CONE HEAD BOILER

¾ in. and larger	4.30	5.15	6.195	*4.82*	*4.89*	6.15	6.00
⅞ and 1	4.45	5.30	6.345	*4.97*	*5.04*	6.30	6.10
1¼ and 1⅜	4.70	5.55	6.695	*5.32*	*5.29*	6.65	6.50

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.35	$1.60	$1.70	$1.95	$2.05	$2.30
No. 2 grade	1.20	1.45	1.50	1.75	1.80	2.05

Asbestos asphalt-saturated Felt (14 lb. per square) costs $5.00 per 100 lb.
Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs *$1.80* per roll in carload lots and *$2.05* for smaller quantities.
Shingles, red and green slate finish, cost *$5.00* per square in carloads; *$5.25* in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots N. Y.	Carload Lots Chicago	Less Than Carload Lots N. Y.	Less Than Carload Lots Chicago
Tar felt (14 lb. per square of 100 sq.ft.)	$50.00	$50.00	$51.00	$51.50
Tar pithe (in 400-lb. bbl.)	19.00	16.00	20.00	17.00
Asphalt pitch (in barrels)	30.00	30.00	35.50	35.50
Asphalt felt	65.00	65.00	69.50	69.50

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	—New York— Current	One Yr. Ago
Blue Annealed						
No. 10	3.55	4.64	4.57	5.80	4.57	5.45
No. 12	3.60	4.69	4.62	5.75	4.62	5.50
No. 14	3.65	4.74	4.67	5.90	4.67	5.55
Black						
Nos. 18 and 20	4.15	5.24	5.17	6.75	*5.17*	6.25
*Nos. 22 and 24	4.20	5.29	5.22	6.80	*5.22*	6.30
*No. 26	4.25	5.34	5.27	6.95	*5.27*	6.40
*No. 28	4.35	5.44	5.37	7.05	*5.37*	6.45
Galvanized						
No. 10	4.70	4.79	5.72	....	*5.50*	6.70
No. 12	4.80	5.89	5.82	7.30	*5.55*	6.80
No. 14	4.80	5.89	5.82	7.30	*5.60*	6.80
Nos. 18 and 20	5.20	6.19	6.12	7.60	*5.90*	7.10
Nos. 22 and 24	5.25	6.34	6.25	7.75	*6.05*	7.25
*No. 26	5.40	6.49	6.42	7.90	*6.20*	7.40
*No. 28	5.70	6.79	6.72	8.20	*6.50*	7.70

*For painted corrugated sheets add 30c. per 1000 lb. for 25 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Cleveland Current	Cleveland One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel	$1.76	$1.55	$1.74	$1.65	$1.78	$1.65
5-gal. cans	1.89	1.65	1.90	1.80	1.98	1.75

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	13.00	14.50	11.25	11.00	13.00	10.50
25 and 50-lb. kegs	13.25	14.75	11.50	11.25	13.25	10.75
12½-lb. keg	13.50	15.00	11.75	11.50	13.50	11.00
5-lb. cans	15.00	16.50	13.25	13.00	15.00	13.00
1-lb. cans	16.00	17.50	13.25	13.00	16.00	13.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

	Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	25 to 32 Ft.
3x3 and 4	$29.50	$30.00	$33.00
3x6 and 8	30.50	31.00	34.00
4x4–6 and 8	31.00	32.00	35.00
3x10 and 12	31.00	32.00	35.00
3x14	31.50	32.50	35.50
4x10 and 12	31.00	32.00	35.00
4x14	32.00	33.00	36.00

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$30.50	$32.50	$35.50
6x14	32.00	34.00	35.00
8x10	30.50	32.50	33.50
8x14	32.00	34.00	35.00

New York, Chicago and St. Louis	Southern Pine New York* 20-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3x 4 to 8x 8	$40.00	$38.50	$39.50	$35.00	$37.00
3x10 to 10x10	43.00	40.50	41.50	38.50	40.00
3x12 to 12x12	46.00	43.50	44.50	40.00	41.50
3x14 to 14x14	49.00	47.50	48.50	45.00	47.00
3x16 to 16x16	55.00	51.00	52.00	48.00	50.00
3x18 to 18x18	*58.00*	55.00	56.00	52.00	53.00
4x20 to 20x20	*61.00*	61.00	62.00	.....	.....

*From Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities	8 x 8-In. x 20-Ft. and Under P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under P.	Fir
Boston	$46.50	$45.00	$45.00	$46.00	$52.00	$46.00
Kansas City	40.50	42.25	*42.25*	*42.25*	45.50	*43.5*
Seattle	20.50	20.50	20.50	20.50	20.50	20.50
New Orleans	35.00 (No. 1)				40.00 (No. 1)	
St. Paul	50.00	53.00	46.00	46.00	57.00	55.00
Denver	44.00	36.50	36.50	.....	49.00	39.00
Atlanta	37.50	.....	.....	.....	48.00	.....
Montreal	.....	65.00	.....	38.00	.....	38.00
Detroit	40.00	.....	.....	.....	44.50	.....

	1-In. Rough, 10 In. and Under P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	$50.00	$45.00	$40.00	$45.00	$48.50
Kansas City	52.75	59.75	59.75	55.00	66.00
Seattle	20.50	20.50	20.50	20.50	20.50
New Orleans	40.00	.....	.....	38.00	.....
St. Paul	51.00	47.00	40.00	51.00	46.00
Denver	45.00	35.50	35.50	38.00	32.00
Atlanta	33.00	.....	.....	33.00	.....
Los Angeles	.....	36.00	35.00	.....	.....
Montreal	60.00	.....	45.00	60.00	.....

Dallas—Yellow pine:

2x4 to 2x12—12, 14 and 16	$38.80
2x4 to 2x12—10, 18 and 20	40.90
2x4 to 2x12—22 and 24	43.20
4x4, 4x6, 6x6, 8x8 and 3x8	46.25
8x10, 10x10 and 3x10	52.00
12x12 and 3x12	54.25

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.25	$3.90	*$3.90*	$3.90	$4.75
Cut	4.25	6.00	*5.50*	6.00	.....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. bbl	*$0.02½–03*	$0.45
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.02	*.03*
Soda ash, in 400-lb. bbl. (dense)	.02	.03
Liquid chlorine in 100-lb. cylinders. Lime is quoted separately	*.10*	.13

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$2.55	$2.55	$4 to $5

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+ 12½%
Galvanized cast steel rigging	7½%
Bright plow steel	35%
Bright cast steel	22½%
Bright iron and iron tiller	5

San Francisco: Galvanized, less 5%, bright, less 25% off.

MANILA ROPE—For rope smaller than ¾-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¾-in., 8 ft., ½-in., 6; ¾-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ¾-in. and larger, in 1200-ft. coils:

Boston	*$0.25*	Denver	$0.29
New York	*.27*	Kansas City	.28½
Chicago	.26½	New Orleans	.27½
St. Paul	.28	Los Angeles	*.26*
San Francisco	.26	Seattle	*.27*
Atlanta	.30	St. Louis	.26½
Detroit	.28	Montreal	.30

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	80%	Black Powder
New York	.....	$0.27½	$0.30	.....	$2.40
Boston	$0.22½	.24½	*.26½*	$.31	2.40
Kansas City	.19	.23½	.26½	.30	2.45
New Orleans	*.22½*	.23½	.24½	.30½	....
Seattle	.14½	.18½	.21	.31½	1.90
Chicago	.18½	.21½	.25½	.....	.....
St. Paul	.19	.23½	.26½	.....	2.45
St. Louis	.19	.23½	.25½	30	2.35
Denver	.17½	.22	.24½	.28½	*2.45*
Dallas	.189	.22½	.288	.342	1.75
Los Angeles	.196	*.237*	*.267*	.....	2.75

POLES—Price of Western red cedar poles is as follows:

	New York Current	New York One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft	$9.00
12-in. butts, 6-in. tops, length 30-40 ft	11.50
12-in. butts, 6-in. tops, length 41-50 ft	12.50
14-in. butts, 6-in. tops, length 51-60 ft	21.00
14-in. butts, 6-in. tops, length 61-71 ft	23.50

	Dallas
6-in. x 20-ft	$3.00
6-in. x 30-ft	5.00
8-in. x 30-ft	7.50
8-in. x 35-ft	7.50

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$19.00	*$18.00*	$15.75
Stove plate	*14.50*	*16.50*	15.50
No. 1 machinery cast	.....	*21.00*	*19.00*
Machine shop turnings	*7.50*	*5.50*	*6.00*
Cast borings	*8.00*	*8.50*	8.00
Railroad malleable cast	*13.00*	*16.00*	14.00

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	San Francisco Black	Seattle Black
½	$10.50	$8.50	$8.55
⅝	9.85	7.85	8.25
¾	9.70	7.70	8.30

Pittsburgh base, $7.85 per 100 lb.

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
June 11	Baltimore, Md. ..... Adv. May 22.	May 22
June 11	Kansas City, Mo.	June 5
June 15	Duluth, Minn.	May 29
June 18	Beggs, Okla. ..... Adv. May 29 and June 5.	June 5
June 19	Gilboa, N. Y.	June 5
June 24	Toledo, O.	June 5

SEWERS

June 9	Pontiac, Mich. ..... Adv. May 22.	May 22
June 9	Stratford, Conn. ..... Adv. May 15.	May 15
June 9	Osgood, Ont.	May 22
Jnue 9	Duncan, Okla.	June 5
June 10	Saginaw, Mich. ..... Adv. May 29 and June 5.	May 29
June 12	Westerly, R. I. ..... Adv. May 29.	May 29
June 14	Brookhaven, N. Y.	May 29
June 14	Port Jefferson, N. Y. ..... Adv. May 29 and June 5.	June 5
June 17	Portland, Me. ..... Adv. June 5.	June 5
June 24	Toledo, O.	June 5
June 25	Lima, O.	June 5

BRIDGES

June 9	King City, Cal.	June 5
June 10	Peninsula, O.	May 29
June 10	Akron, O.	May 29
June 10	Portland, Ore.	June 5
June 11	Swainsboro, Ga.	June 5
June 12	Washington, Pa.	June 5
June 14	Bury, Que.	June 5
June 16	Minneapolis, Minn.	June 5
June 16	Manitowoc, Wis.	May 29
June 16	Valdosta, Ga. ..... Adv. May 22, 29 and June 5.	May 22
June 17	Pineville, W. Va. ..... Adv. June 5.	June 5
June 18	Red Oak, Ia.	June 5
June 19	Harrisburg, Pa. ..... Adv. May 29.	May 29
June 23	Osceola, Mo.	May 29

STREETS AND ROADS

June 9	Austin, Minn.	May 22
June 9	Hastings, Minn.	May 22
June 9	Bunnell, Fla.	May 29
June 9	Millersburg, Mo.	May 29
June 9	Daytona Beach, Fla.	May 29
June 9	Yale, Okla.	June 5
June 9	Salt Lake City, Utah.....	June 5
June 9	Ebensburg, Pa.	June 5
June 9	Salt Lake City, Utah.....	June 5
June 9	Iowa City, Ia.	June 5
June 10	Toledo, O.	June 5
June 10	Hayes, Kan.	June 5
June 10	Canton, Tex.	June 5
June 10	Spencer, Ia.	June 5
June 10	Salt Lake City, Utah.....	June 5
June 10	Duluth, Minn.	June 5
June 10	Waterloo, Ia.	June 5
June 10	Wilmington, Del.	May 29
June 10	Montevideo, Minn.	May 22
June 10	Marlington, W. Va.	May 22
June 10	Clarksville, Pa.	Apr. 3
June 10	Oregon	May 29
June 10	Gilboa, N. Y. ..... Adv. May 22, 29 and June 5.	May 22
June 10	Toledo, O.	June 5
June 10	Delaware	June 5
June 10	Massachusetts	June 5
June 10	St. George, S. I., N. Y.....	June 5
June 10	Wisconsin	June 5
June 10	Greensburg, Pa.	June 5
June 10	Salt Lake City, Utah.....	June 5
June 10	Upper Marlboro, Md.	June 5
June 11	Morris, Minn.	May 22
June 11	Ann Arbor, Mich. ..... Adv. May 29 and June 5.	May 29
June 11	Ganzales, Tex.	June 5
June 11	Iowa	June 5
June 11	New York, N. Y.	June 5
June 11	Brooklyn, N. Y.	June 5
June 12	Minneapolis, Minn.	June 5
June 12	Excelsior Springs, Mo.	June 5
June 12	Elm Grove, W. Va.	June 5
June 12	Washington, Pa.	June 5
June 12	Brainerd, Minn.	May 22
June 12	Metter, Pa.	May 29
June 12	Pittsburgh, Pa.	May 22
June 12	Olean, N. Y. ..... Adv. May 29 and June 5.	May 29
June 12	Garner, Ia.	June 5
June 13	Ebensburg, Pa.	June 5
June 13	Hinton, W. Va.	May 22
June 13	Bemedji, Minn.	May 22
June 14	Grand Rapids, Mich.	May 22
June 14	Indianapolis, Ind.	May 29
June 14	Lincoln, Neb.	June 5
June 14	Guelph, Ont.	June 5
June 14	Willoughby, O. ..... Adv. June 5.	June 5
June 14	Racine, Wis.	June 5
June 15	Beaver Crossing, Neb.....	May 29
June 16	Elk River, Minn.	May 22
June 16	Fayetteville, Ark. ..... Adv. May 29 and June 5.	May 29
June 16	Fayetteville, Ark. ..... Adv. June 5.	June 5
June 16	Ebensburg, Pa.	June 5
June 16	Dublin, Ga.	June 5
June 16	California	June 5
June 17	Henderson, N. C. ..... Adv. May 29 and June 5.	June 5
June 17	New York ..... Adv. May 29 and June 5.	May 29
June 17	Pennsylvania	May 29
June 17	Elbow Lake, Minn. ..... Adv. May 29 and June 5.	May 22
June 17	Luzerne, Minn.	May 22
June 17	Plymouth, Wis.	May 29
June 18	Moorehead, Minn.	May 22
June 18	New Mexico	May 29
June 18	Massachusetts	June 5
June 18	Illinois	June 5
June 18	Little Falls, Minn.	June 5
June 18	Red Oak, Ia.	June 5
June 19	Little Falls, Minn.	May 22
June 19	Junction City, Kan.	May 22
June 19	Brainerd, Minn.	May 29
June 19	Pittsburgh, Pa.	June 5
June 19	St. Edward, Neb.	June 5
June 19	Winfield, W. Va.	June 5
June 19	Pittsburgh, Pa.	June 5
June 19	Junction City, Kan.	June 5
June 20	Harrisonville, W. Va.....	May 22
June 20	Indianapolis, Ind.	May 29
June 20	Sydney, Ia.	June 5
June 21	Indianapolis, Ind.	May 29
June 21	Indianapolis, Ind.	June 5
June 23	Wichita, Kan.	June 5
June 23	Jackson, Tenn.	June 5
June 23	Toledo, O.	June 5
June 24	New Mexico	May 29
June 24	Massachusetts	June 5
June 27	Hiawassie, Ga.	June 5
June 27	Indianapolis, Ind.	June 5
June 27	Aberdeen, Wash.	June 5
June 30	Brunswick, Ga. ..... Adv. June 5.	June 5
June 31	Salt Lake City, Utah.....	June 5
July 1	Marshall, Ark.	May 22
July 7	Indianapolis, Ind.	June 5

EXCAVATION AND DREDGING

June 6	St. George, S. I., N. Y....	May 29
June 10	Wapello, Ia. ..... Adv. May 22 and 29.	May 22
June 10	Woodland, Wash.	June 5
June 17	Burlington, Ia. ..... Adv. May 29 and June 5.	June 5
July 1	Edwardsville, Ill.....	May 15

INDUSTRIAL WORKS

June 6	New York, N. Y.	June 5
June 6	Waterbury, Conn.	June 5
June 9	Sarasota, Fla.	May 22
June 15	Manitowoc, Wis.	May 29
June 15	Sheboygan, Wis.	May 29
June 15	Milwaukee, Wis.	June 5
June 16	Marquette, Mich. ..... Adv. May 29 and June 5.	June 5
June 16	New Orleans, La.	May 22
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

June 6	Brooklyn, N. Y.	June 5
June 7	New York, N. Y.	June 5
June 8	Barrington, R. I.	June 5
June 9	Lewiston, Idaho	June 5
June 9	Wichita, Kan.	May 29
June 9	St. Catherine, Ont.	June 5
June 9	Green Bush, Minn.	June 5
June 10	Bessemer, Ala.	May 15
June 10	Ashland, Ky.	May 29
June 11	Los Angeles, Cal.	May 29
June 11	New York, N. Y.	June 5
June 12	Duluth, Minn.	June 5
June 12	Staunton, O.	May 22
June 12	Detroit, Mich.	May 22
June 14	Hubbard, O.	May 22
June 14	London, Ont.	June 5
June 15	Anoka, Minn.	May 8
June 15	Rosebud, Tex.	June 5
June 15	Ranger, Tex.	June 5
June 16	Camden, N. J.	June 5
June 16	Los Angeles, Cal.	June 5
June 17	Morenci, Ariz.	June 5
June 17	Ossining, N. Y. ..... Adv. May 22, 29 and June 5.	May 22
June 17	Union Hill, N. J.	May 29
July 1	Austin, Minn.	May 22
July 2	Huntington, W. Va. ..... Adv. May 29 and June 5.	May 29
Aug. 1	Kenosha, Wis.	May 15

FEDERAL GOVERNMENT WORK

June 9	Laboratory — Washington, D. C.	June 5
June 9	Boilers—Denver, Colo.	May 29
June 9	Dredging—Baltimore, Md.	June 5
June 9	Boiler—Monmouth, Ill.	May 29
June 9	Water Main and Sewer System — Washington, D. C. ..... Adv. May 29.	May 29
June 10	Dike—Philadelphia, Pa. ...	June 5
June 11	Heating Plant and Distribution System—Spec. 3891—Brooklyn, N. Y.	June 5
June 11	Tanks — Spec. 3906 — Quantico, Va.	June 5
June 11	Dredging — Spec. 3548 — Hingham, Mass.	May 22
June 11	Fire Protection System — Spec. 3808 — Hingham, Mass.	May 22
June 11	Power House—Spec. 3889—Montauk, N. Y.	May 22
June 11	Laundry — Spec. 3887 — Portsmouth, N. H.	May 22
June 11	T. N. T. Plant—Spec. 3866—Ft. Mifflin, Pa.	May 29
June 11	Boiler and Superheaters — Spec. 3707 — Charleston, W. Va.	May 29
June 11	Earth Fill—Spec. 3897—Anacosta, D. C.	May 29
June 11	Electric Distributing System—Spec. 3901—Hampton Roads, Va.	May 29
June 11	Building, etc.—Spec. 3892—Brooklyn, N. Y.	June 5
June 11	Fence — Spec. 3888 — New York, N. Y.	June 5
June 11	Chimney — Spec. 3606 — New York, N. Y.	June 5
June 11	Boat Storage Building — Spec. 3889—South Brooklyn, N. Y.	June 5
June 11	Earth Fill—Spec. 2897—Anacosta, D. C.	June 5
June 12	Rip Rap—Baltimore, Md.	May 29
June 13	Furnaces — Washington, D. C.	June 5
June 16	Dredging — New York, N. Y. ..... Adv. May 22, 29 and June 5.	May 22
June 16	Boiler—Cairo, Ill.	May 29
June 16	Boiler—Cincinnati, O.	May 29
June 18	Jetty Repairs—Galveston, Tex.	May 29
June 18	Dredging — Spec. 3898 — Paris Island, S. C.	June 5
June 18	Radio Building—Spec. 3902—Cayey, P. R.	May 29
June 18	Post Office—Clinton, S. C.	May 29
	Adv. May 29 and June 5.	
June 18	Buildings — Spec. 3908 — Charleston, S. C.	June 5
June 18	Crane Runaways — Spec. 3678—New York, N. Y. ...	June 5
June 18	Additions to Ship Fitters—Spec. 3920—Boston, Mass.	June 5
June 18	Building, Railroad, Sewer, Shop and Water Works System — Spec. 3909 — Hampton Roads, Va.	June 5
June 18	Roads and Walks—Spec. 3881—Cape May, N. J. ...	June 5
June 18	Pavement — Spec. 3913 — Washington, D. C.	June 5
June 18	Pier—Spec. 3918—Hampton Roads, Va.	June 5
June 18	Bridge — Spec. 3907 — Hampton Roads, Va. ...	June 5
June 18	Wharf — Spec. 3910 — Quantico, Va.	June 5
June 18	Dredge—Spec. 3898—Port Royal, S. C.	June 5
June 19	Levee Work—St. Louis, Mo. ..... Adv. May 22, 29 and June 5.	May 22
June 19	Wall—Washington, D. C.	June 5
June 19	Lock and Abutment — Louisville, Ky. ..... Adv. May 29 and June 5.	June 5
June 20	Boilers—Memphis, Tenn.	May 22
	Adv. May 22, 29 and June 5.	

Bids Close		See Eng. News-Record
June 20	Boiler—New Port News, Va.	June 5
June 23	Steel, Forgings, Castings, etc.—Wheeling, W. Va. Adv. May 29 and June 5.	May 29
June 23	Dredging—New York, N. Y. Adv. May 29 and June 5.	May 29
June 23	Sewage Disposal System — Washington, D. C. Adv. June 5.	June 5
June 24	Dredging—Portland, Me. Adv. May 29 and June 5.	May 29
June 25	Piles and Lumber—New Orleans, La. Adv. May 29 and June 5.	May 29
June 25	Cranes—Spec. 3933—New York, N. Y.	June 5
June 25	Elevators — Spec. 3934 — New York, N. Y.	June 5
June 25	Pattern Shop—Spec. 3478— Philadelphia, Pa.	June 5
June 25	Administration Building, Roads and Walks—Spec. 3922—San Diego, Cal.	June 5
June 25	Rebuilding Shipbuilding Ways—Spec. 3590 — New York, N. Y.	June 5
June 25	Distributing System—Spec. 3921—San Diego, Cal.	June 5
June 25	Bulkhead — New Orleans, La. Adv. May 29 and June 5.	May 29
June 27	Air Compressors—Florence, Ala.	May 29
June 27	Dredging—Newport, R. I. Adv. June 5.	June 5
June 27	Post Office — Houghton, Mich.	May 29
June 27	Coal—New Orleans, La.	May 29
July 1	Post Office, Towah, Wis.	June 5
July 2	Dredging, New York, N. Y. Adv. June 5.	June 5
July 7	Steel—Philadelphia, Pa. Adv. June 5.	June 5

MISCELLANEOUS

June 6	Paving Material—New York, N. Y.	May 29
June 9	Flusher and Sprinkler — Lewiston, Mont.	May 22
June 9	Asphalt—St. Paul, Minn.	June 5
June 9	Road Material—Ebensburg, Pa.	June 5
June 10	Road Roller — Saginaw, Mich. Adv. May 29.	May 29
June 10	Valves, etc.—Los Angeles, Cal.	May 29
June 11	Castings, etc.—New York, N. Y.	June 5
June 12	Breakwater — Louis, P. E. I.	May 22
June 15	Grain Tanks — Carthage, Mo.	June 5
June 18	Pier, etc.—Chaumont, N. Y.	May 29

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Shenandoah—City having plans prepared by Gannett, Seelye & Fleming, engrs., 204 Locust St., Harrisburg, improving waterworks system, to include pumping station, pumps, motors, etc. D. T. Glover, city engr.

Ill., Chicago—See "Streets and Roads."

Minn., International Falls—City voted bond issue to purchase site and build waterworks plant. J. Croasdale, aud.

Kan., Hiawatha—City having plans prepared improving waterworks system. Plans include installing pumps at spring on County Farm, etc. About $25,000. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

Kan., Osborne—City having plans prepared by Archer & Stevens, engrs., New England Bldg., Kansas City, Mo., improving waterworks system.

Wyo., Pine Bluffs—City voted $40,000 bonds to extend water mains and sewers and enlarge light plant.

Okla., Holdenville—City voted $12,000 bonds to improve water-works system.

Colo., Grover—City voted $34,000 bonds to build waterworks system and electric light plant.

Ore., Yamhill—City sold $40,000 bonds to build waterworks system. Work involves 7½ mi. of water mains.

Cal., Avalon—See "Industrial Works."

Cal., Inglewood — City voted $217,000 bonds to build waterworks system. Plans include wells, pumps, standpipe, reservoir and distributing system or purchase of pumping plant and distributing system of Inglewood Water Co. and extending and improving same. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs. Noted Mar. 27.

Que., St. Johns—City plans to improve waterworks system. About $19,000. A. Bouthiller, mayor.

BIDS DESIRED

N. Y., Gilboa—Until June 19, by Bd. Water Supply, Municipal Bldg., New York City, building dam here, same being part of Schoharie Watershed development for New York City water supply. About $7,000,000. Former bids rejected. Noted May 22.

O., Toledo—Until June 24, by Comrs. Lucas Co., laying water line No. 7 in Norwood Dist., involving 960 ft. 8 in. and 25,620 ft. 6 in. c. i. pipe, twenty two 6 and 8 in. valves, 26 hydrants and 4½ tons special castings; estimated cost, $51,800; water line No. 8, in North Collingwood Park, involving 23,405 ft. 6 in. and 4708 ft. 8 in. c. i. pipe, 21 valves, 22 hydrants and 6 tons special castings, $58,000; water line No. 10 in Forest, Hickory and Upton Aves., involving 7700 ft. 6 in. c. i. pipe, ten 6 in. valves, 10 hydrants and 2 tons special castings, $15,700. L. A. Boulay, co. engr.

Mo., Kansas City—Until June 11, by J. R. Samuel, purch. agt., building rein.-con. standpipe, 1,000,000 gal. capacity, on 75th and Holmes Sts. Work involves 1500 cu.yd. rein.-con., 180 tons reinforcing steel and 420 cu.yd. earth excav. W. G. Goodwin, ch. engr.; advertised in this issue.

Okla., Beggs—Until June 18, by Bd. Trustees, building mechanical filter plant, capacity 500,000 gal. per 24 hours; also for one 7 x 8 truplex pump and 25 hp. electric motor. W. K. Enoch, town clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Mt. Pleasant—Bd. Water Supply Municipal Bldg., New York City, received lowest 3 bids May 20 furnishing and laying water pipes, building concrete steps and walks, etc., at Kensico Dam, from Masterson Constr. Corp., 15 East 40th St., New York City, $32,955; T. Crimmins Contg. Co., 624 Madison Ave., New York City, $35,409; Hughes & Gardner, North Tarrytown, $36,831.

N. J., Jersey City—City received lowest 3 bids laying 72-in. steel water pipe between Boonton Reservoir and here, (a) Sect. 1 duplicating existing syphons between Boonton Reservoir and Passaic River at Lyndhurst, (b) Sect. 2, duplicating existing syphons between Passaic River at Lyndhurst and Summit Ave. Reservoir here, from J. T. Brady & Co., 103 Park Ave., New York City, (a) $2,101,067, (b) $1,858,208; J. L. Sigretto Co., South Curtis Ave., Woodhaven, N. Y., (a) $2,104,922, (b) $1,993,135; H. F. Curtis, 1270 Bway., New York City, (a) $2,256,075; P. McGovern, 50 East 42nd St., New York City, (b) $2,036,619. Noted May 15.

Ill., Morton Grove—Sanitary Dist. of Chicago received lowest 3 bids May 15, building sprinkling filter plant here, from Hoeffer & Co., 133 West Washington St., Chicago, $39,132; S. N. Nielsen, 3059 Augusta St., Chicago, $40,132, Schillinger Constr. Co., 2322 North Seeley Ave., Chicago, $40,146.

★**Tex., Stamford**—City let contract building reservoir here, 12 mi. concrete pipe line from river to pumping station and 2 mi. c.i. pipe line from pumping station, to Amer. Cast Iron Pipe Co., Birmingham, Ala., cost $200,000; building dam across Clear Fork of Brazos River, involving 9000 cu.yd. rubble and concrete masonry, 70,000 cu.yd. earthwork, etc., to List & Gifford Contg. Co., 415 Ry. Exch. Bldg., Kansas City, Mo., $100,000.

★**Wash., Seattle**—City let contract laying 3710 ft. 8-in. c.i. water mains in 60th Ave., S. W., et al., to Scalzo & Co., Seattle, $12,970.

Sewers

PROPOSED WORK

Mass., Springfield—City appropriated $50,000 to build new sewer in Carlisle Brook Sect. C. M. Slocum, city engr.

N. Y., Binghamton—Common Council soon receives bids building Sect. 2 intercepting sewer. About $60,000. J. A. Giles, comr. pub. wks.

N. J., Camden—Com. Streets and Highways rejected bids building sewers in sections of Liberty, 8th, 32nd and 36th Sts., Harrison, Lois, Hayes, River, Westfield and Trinity Aves. Work will be readvertised. Noted May 15.

Mich., Hamtramck—City plans to build ½ mi. vitr. crock sewer in Christopher Ave. from center line Conant Ave. to easterly village limits. About $12,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Wis., Chilton—City soon lets contract furnishing material and laying sewers in Division and Main Sts., involving 2500 ft. 12-24 in. vitr. pipe. About $15,000. J. Donohue, York Bldg., Sheboygan, engr.

Wis., La Crosse—Bd. Pub. Wks. soon lets contract furnishing and laying 12,449 lin.ft. 10-24 in. vitr. sewer pipe, 1459 lin.ft. 33-36 in. rein.-con. pipe, 30 manholes, etc.

Wis., Milwaukee — Sewerage Building Comn. soon lets contract building 20 intercepting sewers and regulating structures in various streets. About $70,000. T. C. Hatton, City Hall, engr.

Wis., Plymouth—City soon lets contract building and installing sanitary and storm sewers in Western Ave. from Reed to Selma Sts., involving 3500 ft. 8-in. vitr. pipe. About $15,500. J. Donohue, York Bldg., Sheboygan, engr.

Kan., Arkansas City—City having plans prepared by C. E. McCrae, engr., 314 Republic Bldg., Kansas City, Mo., extending sewers and sewage disposal plant, involving 3 mi. 8-15-in. vitr. pipe.

S. D., Artesian—City voted $35,000 bonds to build sewerage system here.

Wyo., Pine Bluffs—See "Waterworks."

Ore., Portland—City soon lets contract building sewers in Boise St. from point 123 ft. west of west line of 42nd St. S. E.; East 51st St. from point 120 ft. south of south line of Division St. to sewer in 27th Ave. S. E.; also on line 33 ft. east of and parallel with railway near Lowell Ave., vitr. or concrete pipe. O. Laurgaard, ch. engr.

Cal., Holtville—City soon receives bids building 7000 ft. 12 in. vitr. outfall sewer. H. Burk, Holtville, engr. Noted May 22.

BIDS DESIRED

Me., Portland—Until June 17, by E. M. Hunt, comr. pub. wks., building Sect. 3 Fall Brook Branch Sewer and Milliken Branch Sewer, involving 3260 lin.ft. 15-24-in. pipe, 1900 cu.yd. earth and 770 cu.yd. ledge excav., 340 cu.yd. concrete masonry in trench, etc.; advertised in this issue.

N. Y., Port Jefferson—Until June 14, by Sewer Comrs., at office of T. O'Donnell, Post Office Bldg., furnishing labor and material for building sewers, sewage sedimentation tank and screen chamber. A. J. Provost, Jr., 39 West 38th St., New York City, consult. engr.; advertised in this issue.

O., Cleveland—City receiving bids building 815 ft. Nos. 2 and 3 C brick sewers, in St. Clair Ave. from Woodworth Ave. to East 138th St., involving 865 ft. 12-24 in. vitr. pipe, 8 manholes and 2 catch basins. R. Hoffman, city engr.

O., Lima—Until June 25, at office of A. L. Metheany, dir. pub. serv., building Collett St. Relief Sewer, Contr. No. 1. Work involves 16,430 ft. 42-84-in. circular and 78 x 127½-in. semi-circular, monolithic concrete, segment block or rein.-con. pipe; also outlet abutment at Ottawa River, overflow chamber, etc. V. C. Miller, city engr.; advertised in this issue.

Sewers (Continued)

O., Toledo—Until **June 24**, by Comrs. Lucas Co., building 30,300 ft. sewer in North Collingwood Park, involving 29,307 ft. 6-12 in. vitr. pipe, 1100 branches, 74 manholes, 1000 ft. 6 in. c. i. force main, 200 gal. centrifugal pump and concrete sewage lift, cost $69,700; 1800 ft. sewer in Harris St., involving 1737 ft. 6-15 in. vitr. pipe and 5 manholes, $7600. L. A. Boulay, co. engr.

Mich., Oakwood (Oxford P. O.)—H. L. Russell, engr., 505 Moffat Bldg., Detroit, receiving bids furnishing material and labor for building 8000 ft. 12-15 in. vitr. crock sewer in Dix, Zanger and Rouge Aves., involving 18 standard 36 in. manholes. Noted Mar. 27.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building rein.-con. sewers in Kneeland St., involving 1200 ft. rein.-con. pipe, 700 cu.yd. earth and 50 cu.yd. rock trenching, 72 ton steel, 500 lin.ft. 6-in. tile and 120 cu.yd. concrete, to J. J. Coughlin Co., Boston, $38,237; in Clarendon St., 3200 ft. concrete pipe, 4500 cu.yd. earth trenching, 28 tons steel, and 900 cu.yd. concrete, to J. A. Costello Co., South Boston, $35,480.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract furnishing all labor and material for building sewer in Ave. U, to C. W. MacDonald, 1910 Webster Ave., New York City, $195,801. Noted May 29.

N. J., Newark—Passaic Valley Sewerage Comn., 820 Essex Bldg., received bids building (a) part Sect. 19, Lodi St. River Crossing, (b) part Sect. 19, Wallington River Crossing, from H. E. Fox Constr. Co., 81 East 125th St., New York City, (a) $98,150, (b) $67,945; Franco Amer. Constr. Co., Inc., 150 Nassau St., New York City, (a) $113,750, (b) $81,700; Cenedella & Co., Passaic, (a) $168,150, (b) $111,200.

Pa., Erie—City Council received lowest 3 bids for completion of Sect. 3 Mill Creek Flood Control Project from Scott Bros., Arlington Blk., Rome, N. Y., $589,058, Peckham Constr. Co., Niagara Life Bldg., Buffalo, $640,100, Foundation Co., 233 Bway., New York City, $653,697; Sect. 4, from Scott Bros., Arlington Blk., Rome, N. Y., $451,459, Peckham Constr. Co., Niagara Life Bldg., Buffalo, N. Y., $478,649, A. L. Anderson & Bros., McCance Bldg., Pittsburgh, $519,313; Sect. 5, from Erie Concrete & Steel Co., 13th and Cranberry Sts., Erie, $46,091, Schaaf Co., Mutual Life Bldg., Buffalo, N. Y., $47,189, Lupfer & Remick, Ellicott Sq., Buffalo, N. Y., $48,844. Noted Apr. 24.

O., Cleveland—City received bids building sewers in Russell Rd. from Superior Ave., south, from Manson Co., 345 The Arcade, cost $17,250; Gallagher-Burke Co., 1339 Irene Ave., $18,177; Gawne Constr. Co., 10510 Euclid Ave., $19,246. Noted May 29.

★**O., Cleveland**—City let contract building sewer in Euclid Ave. from London Rd. to Wayside Ave., to Gould & Maybach, 823 East 150th St., $11,759. Noted May 29.

★**O., Cleveland**—City let contract building sewer in East 19th St. from Prospect to Central Aves., to Amata Constr. Co., 343 The Arcade, cost $11,120; Euclid Ave. from London Rd. to Wayside Ave., to Gould & Maybach, 823 East 150th St., $11,959. Noted May 29.

★**Wis., Milwaukee**—City let contract building 37 intercepting sewers in various streets, to H. Greiling, 80 Davidson St., $137,277. Noted May 8.

Wis., Milwaukee—Sewerage Comn., City Hall, received bids building extension to intercepting sewers involving hauling and laying 2370 lin.ft. 72-in. pre-moulded rein.-con. pipe, etc., from A. H. Prange, Grand Rapids, Mich., $143,461; H. Hohensee, Wauwatosa, $156,468; F. H. Nakielski, Majestic Bldg., $160,076. Noted May 8.

★**Wis., Milwaukee**—Sewerage Comn. let contract building 1800 ft. rein.-con. sewers in various streets, to Mid Western Co., 140 South Dearborn St., Chicago, $86,100. Noted May 22.

★**Wash., Seattle**—City let contract building trunk sewer in Rainier Ave., et al, involving 3070 ft. 8 in. concrete pipe, to Puget Sound Bridge & Dredging Co., Central Bldg., $267,690.

★**Cal., Fresno**—City let contract building sewer in North Fresno Dist., to H. Gould, 1022 27th St., Sacramento, Sect. 1, $100,736, Sect. 2, $6279. Sect. 1 involves 36,016 ft. 8-27 in. vitr. pipe, etc.; Sect. 2, 656 ft. 8 in. and 3918 ft. 6 in. vitr. pipe, etc. Noted May 8.

Cal., Oakland—See "Streets and Roads."

Cal., Riverside—Bd. Supervs. Riverside Co. received only bid building sewer drainage system in Drainage Impvt. Dist. No. 3, from Wattson & Wattson, 4907 Melrose Ave., Los Angeles, $34,872. Noted Mar. 13 under "Excavation & Dredging."

Cal., San Francisco—Bd. Pub. Wks. received bids building 700 ft. 2 x 3 ft. concrete sewer in Euclid Ave. and Arguello Blvd. and 353 ft. 2 ft. 6 in. x 3 ft. 9 in. in Cornwall St. from Palm to 2nd Aves., from Hickey & Harmon, 1539 Greene St., $10,083; P. McHugh, 3908 Clay St., $11,458; T. D. Harney, Pacific Bldg., $11,793.

★**Ont., Sandwich**—Town Council let contract building vitr. sewer, to Pettypiece Co., Seymore St., Amherstburg. About $10,000.

Bridges

PROPOSED WORK

Mass., Holyoke—Boston & Maine R.R., North Shore Sta., Boston, plans to build 1500 ft. steel and concrete bridge over Connecticut River from here to Willimansett, to replace present one. A. B. Corthell, Boston, ch. engr.

Mass., Holyoke—City plans to build concrete culvert in Elmwood Park. About $15,000. T. J. McCarthy, city engr.

N. J., Hackensack—Bd. Supervs. Bergen and Hudson Counties, plan to repair Paterson Plank Rd. Bridge over Hackensack River. About $10,000. Plans include replacing buckle plates on draw span, painting entire bridge, placing pipe railing on hand-rail, etc.

Pa., Phila.—See "Streets and Roads."

Del., Wilmington—New Castle Co. soon lets contract strengthening 300 ft. steel bridge, 30 ft. wide, over Brandywine Creek at Market St. About $11,000. C. E. Grubb, co. engr.

Ga., Sales City—Mitchell Co., (Camilla), election July 3, to vote on $55,000 bonds to build bridge over Flint River at Newton, near here.

Ill., Carlinville—Highway Comn. of Polk Twp., Macoupin Co., plans election to vote on $13,735 bonds to build several bridges.

Ia., Decorah—Bd. Supervs. Winneshiek Co. soon receives bids building one 16 ft. x 25 ft., one 16 x 32 ft. and one 16 x 36 ft. I beam bridges, concrete floor and abutments. About $10,500. F. W. Arneson, co. engr.

Ia., Indianola—Bd. Supervs. Warren Co. soon receives bids building 120 ft. high steel truss bridge, 16 ft. wide, concrete floor and abutments, two 20 ft. approach spans on steel tubes. About $12,500. R. E. Boyle, co. engr.

Ia., Red Oak—Bd. Supervs. Montgomery Co. receives bids in June building 45 concrete bridges and culverts. About $25,000. B. Conlon, co. engr.

Minn., St. Peter—Comrs. Nicollet Co. rejected only bid received building 4 rein.-con. bridges, culverts and retainng wall on State Rds. Nos. 4 and 6. Work will be readvertised. H. W. Daniels, St. Peter, engr. Noted May 29 under 'Streets & Roads."

Neb., Central City—Merrick Co. (Central City) and Hamilton Co. (Aurora) receive bids about July 15, building 800 ft. bridge, 16 ft. wide, near here, to have sixteen 50-ft. rein.-con. arch spans and 3000 lin.ft. approach fill. About $55,000. G. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Neb., Grand Island—Hall Co. receives bids about July 15, building 800 ft. bridge, 16 ft. wide, near here, to have sixteen 50-ft. rein.con. arch spans and 3000 lin.ft. approach fill. About $55,000. State will appropriate $27,500 toward cost. G. E. Johnson, c/o State Highway Dept., Lincoln engr.

Ore., Oregon City—State Highway Comn., Salem, plans to build 385 ft. bridge over Willamette River, structural steel encased in concrete, 5% grade. About $268,000. C. B. McCullough, Capitol Bldg., Salem, state bridge engr.

Ont., Grand Valley—Wheelock & Christie, engrs., Orangeville, soon let contract building rein.-con. bridge with two 80 ft. arch spans, over Grand River, for town.

Ont., London—Town soon lets contract building 2 rein.-con. bridges, 24 ft. long. About $10,000. M. Grant, 110 Dundas St., clk.

Alta., Calgary—Works Comn. plans to expend 207,000 to build Louise Bridge on Main St.

BIDS DESIRED

Pa., Washington—Until June 12, by T. J. Underwood, controller, Washington Co., building rein.-con. bridge over Chartiers Creek, near Thompsonville, 50 ft. span, 18 ft. roadway.

W. Va., Pineville—Until June 17, by W. P. Cook, clk., Wyoming Co., building 2 bridges on Elmore-Herndon Rd., West Virginia Project No. 1054; advertised in this issue.

Ga., Swainsboro—Until June 11 (change of date), by Comrs. Emanuel Co., building 7 rein.-con. bridges on Dixie-Overland Highway. About $61,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs. Noted May 15.

Ia., Red Oak—Until June 18, by Bd. Supervs. Montgomery Co., building 30 concrete box culverts, 1 concrete deck girder bridge, 3 I-beam spans, concrete floor and abutments, one 20 x 120 ft. high steel truss bridge on piling, 2 pony truss bridges, concrete floor and abutments and 8 circular culverts. B. Conlon, co. engr.

Minn., Minneapolis—Until June 16, by A. P. Erickson, aud. Hennepin Co., removing bridge 63 over Elm Creek and building new 35 ft. rein.-con. arch bridge, 20 ft. roadway, on State Rd. No. 8, Champlin Twp. About $10,000. E. E. Terrell, Court House, engr.

Okla., Yale—See "Streets and Roads."

Ore., Portland—Until June 10, by State Highway Comn., Court House, Portland, building 8 rein.-con. bridges between McMinnville and Bellevue, on Yamhill-Nestucca Highway, Yamhill Co., involving 58,000 lbs. reinforcing steel, 604 cu.yd. Class A concrete, 400 lin.ft. hand rail; Rogue River Bridge at Rock Point near Gold Hill, Jackson Co., 490 ft. long, to have seventeen 25 ft. rein.-con. spans and one 115 ft. arch, 150,000 lbs. reinforcing steel, 1050 cu.yd. Class A concrete and 1125 lin.ft. hand rail. H. Nunn, state highway engr.

Cal., King City—Until June 9, by California Highway Comn., 515 Forum Bldg., Sacramento, building bridge over Salinas River, to have 14 steel spans, 100 ft. each, and 1230 lin.ft. rein.-con. trestle, involving 56 cast iron drains, 3412 cu.yd. Class "A" portland cement, 6560 lin.ft. rein.-con. piles, 3375 lin.ft. wooden piles, 2200 lin.ft. double pile continouus dikes, 760 lin.ft. cross dikes and 6200 sq.yd. asphalt surface.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Rome**—Supt. Pub. Wks., Capitol, Albany, let contract building 8 ft. pipe culvert over Barge Canal here, to Scott Bros., Arlington Blk., $46,731. Noted May 8.

★**Ga., Chatsworth**—Bd. Supervs. Murray Co. let contract building 5 rein.-con. bridges, to Luten Bridge Co., 59 Stokes Ave., Atlanta, $12,795.

★**Ga., Mt. Vernon**—Comrs. Montgomery and Wheeler Counties let contracts building steel span for rein.-con. bridge over Oconee River, 2 mi. from here, to Southern Bridge Co., 39th St., Birmingham, Ala., cost, $81,795; concrete work, to C. T. Dawkin Constr. Co., Jacksonville, Fla., $91,746. Noted Mar. 13.

★**Ga., Thomasville**—Comrs. Thomas Co. let contract building rein.-con. bridge, 4½ mi. from here, to Nichols Contg. Co., Trust Co. of Georgia Bldg., Atlanta, $58,000. Contract let tentatively depending on Federal aid. Noted Apr. 24.

★**Ill., Watseka**—Iroquois Co. let contracts building one 60 ft. rein.-con. span bridge, 20 ft. roadway, Sect. J-15d, to Joliet Bridge & Constr. Co., Joliet, $7498; 100 ft. span, Sect. I-15d, 20 ft. roadway, to Continental Bridge Co., 53 West Jackson St., Chicago, $11,345. Noted May 8.

★**Ia., Clarion**—Bd. Supervs. Wright Co. let contract building two 18 x 75 ft. and one 16 x 60 ft. pony truss bridges with concrete floors and abutments, 40 concrete box culverts and 6 concrete circular culverts, to Iowa Bridge Co., Hubbell Bldg., $37,575. Work involves 1326 cu.yd. rein.-con., 54 tons structural and 44 tons reinforcing steel and 2560 lin.ft. wooden piling.

Bridges (Continued)

★Ia., Ellsworth—Bd. Supervs. Hamilton Co., (Webster City) let contract building 20 x 120 ft. high steel truss bridge with concrete floor and abutments, to A. Swanson & Co., Webster City, $16,416. Work involves 373 cu.yd. rein.-con., 46 tons structural and 13 tons reinforcing steel and 1728 lin.ft. wooden piling.

★Ia., Marion—Bd. Supervs. Linn Co. let contract building 13 concrete box culverts and 2 concrete slab bridge, to P. Jayne, Cedar Rapids, $14,400. Work involves 602 cu.yd. rein.-con., 18 tons reinforcing steel and 1240 lin.ft. wooden piling.

★Ia., Mt. Ayr—Bd. Supervs. Ringold Co. let contracts, to Koss Constr. Co., 2818 5th St., Des Moines, building 6 box culverts, 10 circular culverts, one 20 x 20 ft. I beam bridge concrete floor and abutments and one 20 x 50 ft. pony truss bridge, concrete floor and abutments, cost, $18,999; A Phelps & Son, Knoxville, 13 box culverts and 13 circular culverts, $14,082; G. F. Lambert Co., 405 Utica St., Des Moines, 3 box culverts, and 9 circular culverts, $8551.

★Kan., Lyndon—Osage Co. let contract building 90 ft. rainbow arch bridge, 18 ft. wide, to McTernan-Halpin Constr. Co., 2500 Grand Ave., Kansas City, Mo., $13,790. Noted Feb. 6.

★Kan., Lyons—Rice Co. let contract building one 90 ft. steel truss bridge, 20 ft. roadway; one 30 ft. and one 35 ft. rein.-con. bridges, 20 ft. roadway, to Missouri Valley Bridge Co., 4th and Walnut Sts., Leavenworth, $17,400. Noted May 1.

★Wash., Marysville—State Highway Bd., Olympia, let contract building one 50 ft., one 40 ft. and two 20 ft., rein.-con. arch bridges on Pacific Highway between here and Silvana, Snohomish Co., to Fleiness & Dahl, 1305 East 41st St., Seattle, $23,710. Noted May 8.

Que., L'Assomption—Municipal Council received bids building concrete and steel bridge over L'Assomption River, from J. A. Brouillet, L'Assomption, $38,000; P. Marcil and S. Rivest, St. Paul de Joliette, $39,877; J. F. R. Leduc, St. Timothe, $49,-859. Noted May 15.

★Ont., Peterboro—City rescinded contract awarded to Russell Townsend Co., Harbor Bldg., building rein.-con. bridge over Otonbee River, and relet same to Canadian Eng. & Constr. Co., Depew St., Hamilton. Cost plus basis, not to exceed $276,860. Noted May 15.

Reinforced Concrete

PROPOSED WORK

Ga., Hawkinsville—See "Streets & Roads."
Que., Sherbrooke—See "Industrial Works."
Ont., Grand Valley—See "Bridges."
Ont., London—See "Bridges."

BIDS DESIRED

Pa., Washington—See "Bridges."
Ga., Swainsboro—See "Bridges."
Ia., Red Oak—See "Bridges."
Mo., Kansas City—See "Waterworks."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Ga., Thomasville—See "Bridges."
★Ill., Chicago—See "Industrial Works."
★Ont., Peterborough—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Boston—City appropriated $35,000 to build granolithic sidewalks, 6-12 ft. wide. J. W. Holmes, Everett, city engr.

Mass., Chelsea—City had plans prepared paving Spencer St., Spruce St. from Everett St. to tracks Boston & Main R.R., Central St. from Lynn to Highland Sts., 3rd St. from Spruce to Maple Sts., Arlington St. from 3rd St. to Everett Ave. About $100,-000. J. A. O'Brien, city engr.

Mass., Quincy (Boston P. O.)—City had plans prepared paving Whitwell, Granite, Franklin, Brooks, Intervale, Beach, Beal, Atlantic, Roberts, Butler and Revere Sts. About $60,000. M. L. Brown, city engr.

Conn., New Hartford—City appropriated $25,000 bonds to improve main highway. Engineer not selected.

N. J., West New York—Town plans to improve 19th and 20th Sts., granite. About $25,000.

N. J., West Orange—Town soon lets contract improving Ridgeview Ave. from Valley Rd. to Overlook Ave., involving 2496 lin.ft. standard concrete curb, 1096 sq.yd. standard concrete gutter, 3012 sq.yd. bituminous pavement. G. W. Foster, clk. Noted Feb. 27.

Pennsylvania — State Highway Dept., Harrisburg, rejected bids building 10,-554 ft. road in Somerset Co. and 7783 ft. in Warren Co. L. S. Sadler, state highway comr. Noted May 8.

Pa., Phila.—Dept Pub. Wks. soon lets contract grading, paving, repaving and improving various streets with asphalt or wood block, building, repairing and painting various bridges, furnishing and applying dust layer, and furnishing and delivering fuel oil. About $350,000. G. E. Datesman, dir.

Pa., Phila.—Holy Cross Cemetery plans to build 1 mi. road with gutters and necessary drainage. Bids will not be asked for same. J. O. Clarke, 133 South 12th St., engr.

Md., Towson—Comrs. Baltimore Co. soon let contract resurfacing 1.75 mi. Sparrows Point Rd., sheet asphalt over old macadam, 14 ft. wide with 5 ft. slag shoulders. Cost between $35,000 and $38,000. W. G. Sucro, co. engr.

W. Va., Charleston—Cabin Creek Dist., Kanawha Co., plans election soon to vote on $900,000 bonds to improve roads. F. C. Burdette, Charleston, engr.

W. Va., Harrisville—Comrs. Harrison Co. plan election soon to vote on $4,000,000 bonds to improve Class A roads. J. R. Wilson, Clarksburg, engr.

W. Va., Middlebourne—Comrs. Tyler Co. plan election soon to vote on $800,000 bonds to improve Class A roads, 16 ft. wide. P. P. Berkley, Middlebourne, engr.

W. Va., New Cumberland—Hancock Co. voted $100,000 bonds to pave and grade roads in Butler Dist. with vitr. brick. C. E. Grafton, New Cumberland, engr.

W. Va., New Martinsville—Comrs. Wetzel Co. soon receive bids paving and grading 5 mi. Wileyville-New Martinsville Rd., with vitr. brick. About $83,000. S. Palmer, Clarksburg, engr.

W. Va., Pineville—Wyoming Co., Slab Fork and Barker Dists. plan election soon to vote on $140,000 bonds to improve roads. A. B. Shannon, Pineville, engr.

W. Va., Wheeling—Comrs. Ohio Co. plan to build 1 mi. National Pike, grading 32 ft. and surfacing 20 ft. wide, involving 25,000 cu.yd. excav., 11,730 sq.yd. concrete pavement and miscelleanous items. About $38,-000. W. O. McCluskey, Wheeling, engr.

Ga., Albany—Dougherty Co. voted $400,-000 bonds to pave various roads and build concrete bridge over Flint River. State Highway Comn. will appropriate like amount. Noted Mar. 27.

Ga., Camilla—Mitchell Co. election July 3, to vote on $400,000 bonds to build concrete roads.

Ga., Dawson—Terrell Co. election June 17 to vote on $150,000 bonds to build roads. Federal Government will appropriate like amount if election carries.

Ga., Hawkinsville—Pulaski Co. voted $200,000 bonds to build roads. Federal Government will appropriate like amount.

Ga., Hawkinsville—Town soon lets contract building concrete road on Jackson and Commerce Sts. About $30,000. G. W. Jordan, mayor. S. R. Shi, Macon, engr.

Ga., Madison—Morgan Co. voted $325,-000 bonds to build roads.

Ga., Nashville—Berrien Co. voted $500,-000 bonds to pave 75 mi. roads 9 ft. wide, with brick, asphalt or concrete. Federal Government will appropriate like amount. Noted May 1.

Ga., Quitman—Brooks Co. election June 18 to vote on $500,000 bonds to build 100 mi. roads. Federal Government will appropriate like amount if election carries.

Ga., Tifton—Tift Co. voted $300,000 bonds to build roads. Noted May 1.

Fla., Sanford—Seminole Co. voted on $300,000 bonds to build brick and asphalt roads. F. T. Williams, Lockwood, co. engr.

Ky., Winchester—City soon lets contract paving 3½ mi. various streets, 36 ft. wide, concrete, brick, asphaltic concrete, and bitulithic with concrete curbing and guttering. About $200,000. S. H. Rutledge, city engr.

O., East Liverpool—City soon receives bids paving East 5th, Bway, St. Clair, Market, Dresden, Lisbon and West 8th Sts. vitr. brick. About $175,000. J. N. George, East Liverpool, engr.

O., Toledo—Lucas Co. having surveys made and plans prepared paving 1320 ft. Florence and January Aves., 16 ft. wide, concrete; ½ mi. Richards Rd., from Bancroft to Dorr Sts., 16 ft. wide, waterbound macadam; ½ mi. Nevada and Boos Aves., 24 ft. wide, concrete; 2.5 mi. South St., from Reynolds Rd. to Hill Ave., 16 ft. wide, concrete. C. L. Rood, co. engr.

Ind., Indianapolis—Bd. Pub. Wks. having plans prepared grading, graveling, curbing and building sidewalks on Julian Ave. from Emerson to Bancroft Aves. and Gimber St. from Shelby St. to end of Gimber St., grading and graveling 26th St. from Cherry to Dearborn Sts. F. C. Linginfelter, city engr.

Ind., Indianapolis—City adopted resolution to resurface Pennsylvania St. from 25th to Fall Creek Blvd., and Meridian St. from Merrill to McCarty Sts. F. C. Linginfelter, city engr.

Ind., Indianapolis—Comrs. Marion Co. soon let contract grading, draining and paving 2700 ft. 21st St. from Massachusetts Ave. to Baker Rd., 40 ft. wide, vitr. brick on 6 in. concrete base. About $24,-138. L. Griffith, co. engr.

Michigan—State Highway Comn., Lansing, soon lets contract grading, shaping, surfacing and providing drainage structures on following roads: 3.752 mi. in Assessment Dist. No. 31, 9 ft. wide, Class "B" gravel, Wright Twp., Hillsdale Co.; 7.987 mi. in Assessment Dist. No. 69, 9 ft. wide Class "B" gravel with 3 ft. gravel shoulder on either side, from limits of Pinconning in Bay Co. to south limits of city of Standish, Arenac Co.; 3.462 mi. in Assessment Dist. No. 183, 12 ft. wide, Class "E", waterbound macadam, Windsor, Fairhaven and McKinley Twps., Huron Co.; 1.993 mi. in Assessment Dist. No. 208, 12 ft. wide, Class "E" waterbound macadam, Windsor Twp., Huron Co.; 3.915 mi. in Assessment Dist. No. 18, 12 ft. wide, Class "E", waterbound macadam from Ohio-Michigan line northerly in Fairfield Twp., Lenawee Co.; 4.493 mi. in Assessment Dist. No. 111, 12 ft. wide, Class "E", waterbound macadam in vicinity of Pigeon River, McKinley Twp., Huron Co.; 4.531 mi. in Assessment Dist. No. 155, 12 ft. wide, Class "C", stone bottom and gravel road top, Seneca, Fairfield and Madison Twps., Lenawee Co.; 4.052 mi. in Assessment Dist. No. 120, 12 ft. wide, Class "E", waterbound macadam, McKinley Twp., Huron Co.; 2.981 mi. in Assessment Dist. No. 45, 12 ft. wide, Class "C", stone or slag bottom gravel top or Class "E", waterbound macadam, Lenawee Co.; 3.985 mi. in Assessment Dist. No. 102, 12 ft. wide, Class "E", waterbound macadam, McKinley Twp., Huron Co.; 3.026 mi. in Assessment Dist. No. 17, 12 ft. wide, Class "C", stone or slag bottom with gravel top, or Class "E", waterbound macadam, Lenawee Co. F. F. Rogers, state highway comr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving with 1 course concrete Alley No. 1003, 20 ft. wide; No. 1004, 11-20 ft. wide; No. 1005, 18-20 ft. wide; No. 1006, 20 ft. wide; No. 1007, 17-20 ft. wide; No. 1008, 20 ft. wide; No. 1009, 18 ft. wide; No. 1010, 18 ft. wide; No. 1011, 20 ft. wide; No. 1012, 19 ft. wide; No. 1013, 18 ft. wide; with brick, No. 1014, 16 ft. wide. Work involves 6519 cu.yd. excav., 17,678 sq.yd. paving, 51 lin.ft. curbstone, 8 cu.yd. concrete in curb setting, etc. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. plans to repave and improve portions of following streets with asphalt: Alexdrine, Beaufait, Bellevue, Belvidere, Bethune, Brewster, Cadillac, Cass, Clay, Dearborn, Dix, Dragoon, Garland, Grand River, Gratiot, Hamilton, Collingwood, Harper, Hart, Helen, Holbrook, Hurlbut, Joseph Campau, Junction, Kirby, Lawton, Library, McDougall, Marantette, Marston, Merrick, Milwaukee, Montclair, Oakland, Sheridan, St. Antoine, Superior, Sylvester, Townsend, Warren, Willis, Woodward, Wreford, Parker and Trombly Aves.; Bagg, Baker, Chene, Farmer, Duffield, Henry, Illinois, Levett, McMillan, Randolph, Russell, 2nd, 23rd, 29th,

Streets and Roads (Continued)

Vermont, Hastings, John R. Hancock and Hendrie Sts., Opera House Crossing; with creosote block, Shelby Ave.; with brick or asphalt, Livernois and Oak Aves., and Riopelle St.; with stone, Beaufait, Cass, Clark, Kirby, Lafferty, St. Aubin, Vermont and Wayne Aves.; Orleans, Russell, 2nd and 3rd Sts. E. F. Hubbell, city engr.

Mich., Middleville—City retained L. A. Boulay Co., engrs., 1250 Nicholas Bldg., Toledo, O., to prepare plans for 1½ mi. concrete or brick road, 20-48 ft. wide. About $50,000.

Illinois—State Highway Comn., Springfield, received no bids improving roads in Menard, Ogle, Mason, Lake, Bureau, Fulton, McHenry, Bond, Adams and Edward Counties. Will readvertise. Noted May 15.

Ill., Chicago—Bd. Local Impvts. soon lets contract building 6 ft. sidewalks, (56 different jobs); furnishing and installing water service pipes, (11 jobs), water supply pipes (8 jobs); Also furnishing and installing 6 in. tile drains, (10 jobs). J. Ericson, city engr.

Ill., Chicago—Bd. Local Impvts., City Hall, soon lets contract paving Cornelia, Karlov, Kedvale, Keeler and Lowell Aves., Roscoe, Henderson, School and Melrose Sts., involving 6450 cu.yd. grading, 21,500 ft. concrete curbing, 29,800 sq.yd. asphalt on 6 in. concrete base, cost $94,500;

South Park Ave., 14,000 cu.yd. grading, 12,100 ft. concrete curbing, 25,900 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or trap rock, $87,000;

North Claremont, Oakley and Irving Sts., and Rosemont, Highland and Thome Aves., 8200 cu.yd. grading, 11,500 ft. concrete curbing, 18,200 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or traprock, $64,000;

Lawrence Ave., 13,600 sq.yd. paving, creosoted wood block on 6 in. concrete base, 6400 cu.yd. grading, $71,500;

Lafayette Ave., West 66th and West 68th Sts., 9700 ft. concrete curbing, 14,800 sq.yd. asphalt paving on 6 in. concrete base, $49,500;

South Chicago Ave., 4000 cu.yd. filling, 4390 ft. sandstone curbing, 10,780 sq.yd. vitr. brick on 6 in. concrete base, $39,000;

Archer Ave., 5200 cu.yd. grading, 6700 ft. concrete curbing, 1028 sq.yd. granite block on 6 in. concrete base, 11,220 sq.yd. vitr. brick on 6 in. concrete base, $44,500;

Harrison St., 4600 cu.yd. grading, 5330 ft. concrete curbing, 8000 sq.yd. vitr. brick, on 6 in concrete base, $36,500;

Karlov Ave., 3000 cu.yd. grading, 5370 ft. concrete curbing, 8750 sq.yd. asphalt on 6 in. concrete base, $40,000;

Hayne Ave., 255 cu.yd. grading, 5165 ft. concrete curbing, 8570 sq.yd. asphalt on 6 in. concrete base, $26,000;

Keating St., 2400 cu.yd. grading, 5430 ft. concrete curbing, 7520 sq.yd. asphalt on 6 in. concrete base, $26,500;

Longwood Dr., 6400 cu.yd. grading, 5630 ft. concrete curbing, 9020 sq.yd. asphalt on 6 in. concrete, $35,500.

Devon Ave., 1200 cu.yd. grading, 2100 ft. concrete curbing, 280 sq.yd. granite block on 6 in. concrete base, 3080 sq.yd. vitr. brick on 6 in. concrete base, $17,500;

Kolin St., 1090 cu.yd. grading, 1810 ft. concrete curbing, 2810 sq.yd. asphalt on 6 in. concrete base, 6 brick catch basins, $13,000;

Otto St., 1300 cu.yd. grading, 2280 ft. concrete curbing, 3800 sq.yd. asphalt on 6 in. concrete, $15,500;

Morgan St., 300 cu.yd. grading, 1400 ft. concrete curbing, 2360 sq.yd. asphalt on 6 in. concrete base, $9500;

Leavitt St., 800 cu.yd. grading, 740 ft. concrete curbing, 1100 sq.yd. paving with 8 in. crushed slag or limestone and 2½ in. crushed granite or traprock, $4500;

West 35th Pl., 1200 cu.yd. grading, 2350 ft. concrete curbing, 3680 sq.yd. asphalt on 6 in. concrete base, $13,000;

South Wabash Ave., 800 cu.yd. grading, 860 ft. concrete curbing, 1240 sq.yd. paving with 8 in. crushed slag or limestone on 2½ in. crushed granite or traprock, $5000;

Windsor Ave., 1200 cu.yd. grading, 2270 ft. concrete curbing, 3070 sq.yd. asphalt on 6 in. concrete base, $13,000;

West 18th St., 1100 cu.yd. grading, 3630 ft. concrete curb, 3100 sq.yd. vitr. brick on 6 in. concrete base, $12,500;

Alleys between Harrison and Flournoy Sts. and Spaulding and Homan Aves., 501 cu.yd. grading, 1198 ft. concrete curbing, 940 sq.yd. vitr. brick on 6 in. concrete base, $3777;

Van Buren and Congress St. and Washtenaw and California Aves., 600 cu.yd. grading, 2028 ft. concrete curbing, 1789 sq.yd. vitr. brick on 6 in. concrete base, $6100;

Alley between Wabausia and North Aves. and Kedzie and Sawyer Aves., 470 cu.yd. grading, 1590 cu.yd. concrete curbing, 1440 sq.yd. vitr. brick on 6 in. concrete base, $4900.

Alley between Montrose and Cullom Aves., Ashland Ave. and Paulina St., 580 cu.yd. grading, 1180 ft. concrete curbing, 1180 sq.yd. vitr. brick on 6 in. concrete base, $5000;

Alley between Blackhawk and Division Sts. and Holt and Dickson Aves., 1300 cu.yd. grading, 2690 ft. concrete curbing, 2330 sq.yd. vitr. brick on 6 in. concrete base, $10,457. C. D. Hill, ch. engr. Noted Apr. 17.

Ill., Danville—City soon lets contract for 17,000 sq.yd. asphaltic macadam paving. H. H. Edwards, city engr.

Ill., Edwardsville—Madison Co. soon lets contract paving road from Wood River to Grant City Rd., Sect. H-15d, 18 ft. wide, involving 28,076 sq.yd. vitr. brick (4-in. monolithic type) on 4½-in. concrete base, 5068 cu.yd. earth excav., 67 cu.yd. concrete in culverts, etc.; Sect. I-15d, 25,230 sq.yd. vitr. brick (monolithic type), on 4½-in. concrete base, 8836 cu.yd. earth excav., 89 cu.yd. concrete in culverts, etc. Estimate cost excluding cement, $88,610 and $82,938 respectively. W. E. Howden, Edwardsville, engr.

Wis., Chilton—City soon lets contract grading and pacing 2.5 mi. Division and Main Sts., 18 ft. wide. Work involves 20,000 sq.yd. vitr. brick, asphalt or concrete, 9000 lin.ft. concrete curb and gutter and 4200 cu.yd. grading. About $25,000. J. Donohue, York Bldg., Sheboygan, engr. Noted May 8.

Wis., Jefferson—Bd. Pub. Wks. soon lets contract paving portion of 6 streets, vertical fibre brick, rein.-con. or creosoted wood block. Work involves 2884 cu.yd. excav., 9328 sq.yd. pavement, 170 lin.ft. curb and 770 lin.ft. 10-15 in. storm sewers, etc.

Wis., Oshkosh—Comrs. Winnebago Co. soon let contract grading, draining and concrete surfacing 2 mi. Menasha-Appleton Rd., 16 ft. wide, involving 3200 cu.yd. grading, 16,000 sq.yd. 8-in. concrete, cost $50,000; 1½ mi. Oshkosh-Fond du Lac Rd., 16 ft. wide, involving 2800 cu.yd. grading, 18,000 sq.yd. 8-in. concrete, $25,000; 5 mi. Oshkosh-Winneconne Rd., 16 ft. wide, involving 14,000 cu.yd. grading, 48,000 sq.yd. 8-in. concrete, $113,000. Noted Mar. 20.

Wis., Racine—Racine Co. soon lets contract concrete surfacing and grading Asylum Rd., 16 ft. wide, involving 2200 cu.yd. excav., and 14,222 sq.yd. surfacing, etc., and Mygatt's Rd., 16 ft. wide, involving 3400 cu.yd. excav., and 14,430 sq.yd. surfacing, etc. About $56,000. A. R. Hirst, c/o State Highway Dept., engr.

Ia., Spencer—Clay Co. election June 10, to vote on proposition to pave entire primary road system and to form assessment districts along system, entire length 54.28 mi. V. McCown, co. engr.

Minn., Aitkin—Comrs. Aitkin Co. voted $125,000 bonds to build roads. H. G. Beecher, co. aud.

Minn., Bemidji—Comrs. Beltrami Co. authorized issuance of $250,000 bonds and soon receive bids building roads. A. D. Johnson, co. aud.

Minn., Fairmont—Comrs. Martin Co. voted $195,000 bonds to build trunk lines of Federal paved roads. A. Q. Palmquist, co. aud.

Minn., Minneapolis—Hennepin Co. voted $256,000 bonds to build roads. A. P. Erickson, aud.

Minn., Pine City—Comrs. Pine Co. voted $100,000 bonds to build roads. A. P. Edlin, co. aud.

Kan., Emporia—Lyon Co. plans to hard surface Santa Fe Trail from east to west of county through Emporia. W. S. Ruggles, Emporia, engr.

Kan., Hutchinson—Reno Co. rejected bids building Sect. "A" of Santa Fe Trail.

Kan., Independence—City soon lets contract curbing, paving and guttering 1st, 2nd, 4th, 19th and Sycamore Sts. and Tonopah Dr. Work involves 16,250 sq.yd. vitr. brick on concrete base, 890 lin.ft. curbing, 8835 lin.ft. guttering and 9300 cu.yd. earth excav. W. S. Greenleaf, Independence, engr.

Kan., Iola—Allen Co. plans to hard surface 21 mi. Iola-Wichita Highway, and roads in Salem and Marmaton Twps. C. E. Stebbins, Iola, engr.

Kan., Kansas City—Wyandotte Co. soon lets contract building (a) 13,188 ft. road, 18 ft. wide, 2 course portland cement concrete, (b) 6728 ft. road 18 ft. wide, 1 or 2 course portland cement concrete; Federal Aid Project No. 25. M. W. Watson, c/o State Highway Comn., Topeka, acting engr.

Kan., Kansas City—Wyandotte Co. soon lets contract paving 2½ mi. Parallel Rd., portland cement. W. Beggs, co. clk.

Kan., Plainville—City having plans prepared for 20,000 sq.yd. brick paving. Archer & Stevens, 609 New England Bldg., Kansas City, Mo., engrs.

Kan., Syracuse—Hamilton Co. plans to build 50 mi. sand clay road and several concrete bridges. R. B. Glass, co. engr.

Neb., Beaver Crossing—City receives bids about June 15, paving and laying storm sewers in 5000 ft. Main St., 30 ft. wide. About $60,000. Grant & Fulton, Lincoln, engrs.

Neb., Lincoln—City soon lets contract paving and grading 2500 ft. 22nd, 30th, Starr and Franklin Sts., 25 ft. wide, involving 6390 sq.yd. asphaltic concrete on 5-in. concrete base, 125 sq.yd. concrete, 100 lin.ft. concrete curbing, 4900 lin.ft. gutter and curb, 125 lin.ft. sidewalk, and 840 cu.yd. earth excav. About $20,250. G. W. Bates, city engr.

Mont., Bozeman City—City plans to grade and pave 7th Ave. from Main to Lamme Sts., 5th Ave. from Main to Lamme Sts., Lamme St. from 5th to 7th Aves., cost, $20,500; bithulithic paving on Olive St. from Bozeman Ave. to Lindley Pl. and Lindley Pl. from Olive to Koch Sts., $12,561. C. Widener, 607 South Central St., engr.

Mont., Hardin—Big Horn Co. plans to grade 28 mi. Rosebud River Rd. About $20,000. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Hardin—Big Horn Co. plans to grade 12 mi. Hysham-Sarpy Rd. About 10,000. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Philipsburg—Granite Co. plans to grade 2 mi. Drummond Rd. About $10,000. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mo., Clayton—St. Louis Co. plans election soon to vote on $1,000,000 bonds to improve roads. W. Elbring, co. engr.

Mo., Fulton—Callaway Co. soon receives bids hard surfacing 25 mi. road. Bonds for $120,000 sold for project. W. P. Divers, co. engr.

Mo., Liberty—Clay Co. plans to build 24 mi. state aid road, 18 ft. wide, asphaltic macadam. About $20,000 per mile. E. Denny, co. engr.

Mo., Mt. Vernon—Lawrence Co., Mt. Vernon Special Rd. Dist., voted $36,000 bonds to build roads. R. Ford, Mt. Vernon, street comr.

Tex., Belton—City election June 17 to vote on $75,000 bonds to improve streets.

Tex., Carthage—Panola Co., Beckville Precinct voted $135,000 bonds to build roads.

Tex., Corsicana—Navarro Co. plans to grade, drain and gravel surface 2.121 mi. road between Barry and Blooming Grove, 24 ft. wide. About $11,975. C. Chappell, Corsicana, engr.

Tex., Denton—Denton Co., Rd. Dist. No. 4, voted $125,000 bonds to build roads.

Tex., Hillsboro—Hill Co., Dist. No. 11, plans election to vote on $216,000 bonds to build roads.

Tex., San Antonio—City plans election to vote on $17,500 bonds to macadamize principal streets in Dist. No. 14.

Tex., San Augustine—San Augstine Co. Precinct No. 4 voted $100,000 bonds to build roads, Precinct No. 1, $100,000, Precinct No. 2, $50,000.

Tex., San Marcos—Hays Co. plans to improve and build highways. About $415,000. J. W. Puckett, Buda, engr.

Tex., Sherman—Grayson Co. Gunter Dist. voted $90,000 bonds to build roads, Southmayde Rd. Dist. No. 9, $90,000.

Okla., Oklahoma—City plans to pave Hudson St., 26 ft. wide, involving 7500 sq.yd. asphalt, 5000 lin.ft. concrete curb and gutter, and 5000 cu.yd. earth excav.

Idaho, Buhl—City soon lets contract paving 37,650 sq.yd. streets in Dist. No. 1, concrete and asphaltic concrete. G. B. Brazeau, clk.

Idaho, Cascade—Comrs. Valley Co. plan election to vote on $75,000 bonds to build roads.

Streets and Roads (Continued)

Utah—State Highway Comn., Salt Lake City, soon lets contract paving 8.23 mi. state road from Pleasant Grove to north city limits of Provo, 18 ft. wide, 11.12 mi. state road from Midvale to city limits of Lehi, 18 ft. wide, Utah Co.; 8.98 mi. state road from Hot Springs to south city limits of Brigham City, 18 ft. wide, 6-8 in. plain concrete, Box Elder Co. I. R. Browning, Salt Lake City, engr.

Utah, Salt Lake City—Salt Lake Co. soon lets contract grading and building 42,000 ft. road from Lark Twp. to Bear Gulch near Copperfield, 18 ft. wide, waterbound macadam. G. Bywater, co. engr.

Utah, Salt Lake City—Salt Lake Co. soon lets contract paving 8.2 mi. Highland Dr. from present pavement near 33rd St. S to Murphy's Lane, 18 ft. wide. Bids will be received on (1) plain cement concrete, (2) bituminous concrete on cement base, (3) bituminous concrete on crushed stone base (4) tarvia macadam on cement base, (5) tarvia macadam on crushed stone base. G. Bywater, co. engr.

Wash., Anacortes—Skagit Co. soon lets contract grading and paving roads in Local I. D. No. 6, Local I. D. No. 8 and Local I. D. No. 5, bithulithic or 1 course concrete. E. Swanberg, clk.

Wash., Washougal—City soon lets contract paving 2nd St. from Richard Ave. to Durgan St., center 30 ft., curb at edge, leaving park strip 9 ft. wide between sidewalk and curb; from Durgan to Webber Sts., from Webber to Russell Sts.; Russell St. from 2nd to intersection County Rd.; County Rd. from Russell St. to town limits, 18 ft. wide in center, two 2 ft. crushed rock shoulders; Local Impvt. Dist. No. 2. H. C. Carpenter, clk. T. A. Garrow, 421 Northwestern Bank Bldg., Portland, Ore., engr.

Wash., Wenatchee—Comrs. Chelan Co. soon let contract hard surfacing 1.2 mi. Permanent Highway No. 11.

Wash., Yakima—City soon lets contract paving Walnut St., concrete. About $215,000.

Ore., Hillsboro—City soon lets contract for 6000 ft. concrete curbs, 25,000 sq.yd. concrete pavement, 5000 cu.yd. excav. R. W. Jones, city engr.

Ore., North Bend—City having plans prepared and estimates made for improving and hardsurfacing California Ave. from Sherman to Sutherlin Sts. R. L. Cavanaugh, city engr.

Ore., Portland—City soon lets contract paving with concrete No. 1 on crushed rock base, asphaltic concrete on crushed rock or concrete Nos. 1 and 2, East 61st St. from Fremont St. to Sandy Blvd.; East Sherman St. from Stratford Sydney addition to 34th St.; East 53rd St. from East Hoyt to East Glisan Sts.; East 11th St. from East Davis to East Flanders Sts.; with macadam, Boise St. from East 39th to 42nd Sts.; with crushed rock or gravel, 45th St.; also improving Leland and Bellevue Sts. and Dekum Ave. G. R. Funk, city aud.

Ore., Portland—City soon lets contract paving with asphaltic concrete Nos. 1 and 2 on crushed rock or bituminous base, on concrete Nos. 1 or 2, East 52nd St. from south line of lots 44 and 54, Melrose, to south line of East Burnside St. O. Laurgaard, city engr.

Cal., Holtville—City soon receives bids grading and paving with concrete, bitulithic surface, etc., 252,220 sq.ft. in 5th, 6th, Palm, Pine and Holt Sts., Rd. Dist. No. 1; 244,800 sq.ft. 6th, 7th, Olive, Pine, Palm and Holt Sts., in Dist. No. 2. Contract will be let in 2 sections. H. J. Burk, Holtville, engr. Noted Mar. 6.

Cal., Pomona—City receives bids in July paving with 4 in. concrete, with ½ in. screenings and oil surface 1.22 mi. Philadelphia St. C. E. Bayley, city engr.

Cal., Santa Cruz—Santa Cruz Co. election June 10 to vote on $924,000 bonds to pave highways.

N. B., Shediac—Town having plans prepared paving 1 mi. Main St. and several miles various streets, waterbound macadam. J. A. McQueen, clk.

Que., St. Alexis—E. Beaudoin, secy.-treas., soon lets contract building 6 mi. gravel road. G. Henry, Parliament Bldg., Quebec, engr.

Que., Victoriaville—Town voted $25,000 bonds to pave streets. L. J. Boyer, clk.

Ont., Belleville—City plans to pave with asphaltic concrete Campbell St. from Front to Pinnacle Sts., and with asphalt Burnham, Ann and William Sts., from Bridge to Dundas Sts., and Coleman St. from Moira to Bridge St., E. About $80,000.

Ont., Exeter—Town plans to spend $37,000 to pave concrete roads during 1919.

Ont., Kingston—Frontenac Co. soon receives bids building roads. About $68,000 available for project.

Ont., St. Thomas—City soon lets contract paving streets involving 20,000 sq.yd. asphalt on 6-in. concrete base, 10,000 lin.ft. concrete curb and gutter, and 1900 sq.yd. creosoted block on concrete base. About $80,000. M. Ferguson, city engr.

Ont., Swastika—Dept. highways, Toronto, plans to build 6 mi. macadam road from here to Kirkland Lake. About $60,000.

B. C., Vancouver Island—Dept. Pub. Wks., Victoria, soon lets contract grading and paving about 1 mi. Island Highway from Craigflower Bridge to Parsons Bridge, 16 ft. wide. Alternate bids will be considered on one course concrete and asphaltic concrete on macadam or concrete base. A. E. Forman, c/o Dept. Pub. Wks., Victoria, engr.

BIDS DESIRED

Massachusetts—Until June 10, by State Highway Comn., Boston, building 11,200 ft. bituminous macadam road, 18 ft. wide, Taunton Twp., A. W. Dean, state highway engr.

Massachusetts—Until June 24, by State Highway Comn., Boston, building 11,200 ft. bituminous macadam highway, 18 ft. wide, Great Barrington Twp. A. W. Dean, state highway engr.

Massachusetts—Until June 18, by State Highway Comn., Boston, building 23,500 ft. bituminous macadam road in Hancock and Pittsfield Twps., and 12,800 ft. in Braintree Twp., 18 ft. wide. A. W. Dean, state highway engr.

N. Y., Brooklyn—Until June 11, by E. Riegelmann, boro. pres., regulating, grading, curbing and laying sidewalks on East 38th St. from Church to Synder Aves.; 51st St. from 14th to 17th Aves.; regulating and repaving with permanent asphalt on 6 in. concrete foundation a strip 18 ft. wide in center of roadway of 47th St. from New Utrecht to 18th Aves.; 51st St. from 16th to 17th Aves.

N. Y., New York—Until June 11, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving with granite block on concrete foundation, roadway of James Slip from South to Cherry Sts.; Leroy St. from Hudson to West Sts.; with sheet asphalt on concrete foundation, Broad St. from South to Water Sts.; Wall St. from Pearl St. to Bway.; Lexington Ave. from curb to rail at intersection of 60th St.; 79th St. from 2nd to Madison Aves.; Bway. from 181st St. to Nagle Ave.

N. Y., S. I., St. George—Until June 10, by C. D. Van Name, pres. Richmond Boro., repairing with wood block pavement roadways of Richmond Ave. from Richmond Terrace to south property line of Post Ave.; Castleton Ave. from Columbia St. to east property line of Caroline St. and from west property line of State St. to east property line of Bway.; Columbia St. from Richmond Terrace to south property line of Cary Ave.; Bay St. from south property line of Thompson St. to Clifton R.R. crossing and New York Ave. (Bay St.) from Clifton R.R. crossing to south property line of Bayview Ave.

Pa., Ebensburg—Until June 13, by Controller Cambria Co., building, excavating and furnishing material for 2 mi. road in West Carroll Twp., 18 ft. wide, brick block on 6 in. concrete base. F. Akline, Carrolltown, engr. Noted May 22.

Pa., Ebensburg—Until June 16, by Supervs. Clearfield Twp., c/o Controller, Cambria Co., building 2 mi. road from Clearfield Creek at Dysart to Patton, also intersection Pennsylvania Rd. Route 221, ½ mi. east of Patton to Dysart, vitr. fire clay or shale block on combination or 6 in. concrete base. Owen & Plummer, Otto Bldg., Johnstown, engrs.

Pa., Greensburg—Until June 10, by Westmoreland Co., building 7th St. extension in New Kensington Boro., 1.5 mi. long, and Scottdale-Greensburg Rd., Sect. 3, 3.31 long.

Pa., Pittsburgh—Until June 19, by Controller Allegheny Co., improving 17,000 ft. Butler Pike, Shaler and Hampton Townships, 20 ft. wide, asphaltic concrete and brick block; 8000 ft. Bakerstown and Warrendale Rd., Pine Township, 18 ft. wide, concrete. R. V. Warren, co. engr.

Pa., Washington—Until June 12, by T. J. Underwood, controller, Washington Co. building 1.1 mi. Beallsville-Zollarsville Rd., 1.25 mi. Avella-Cross Creek Rd., 1.70 mi. Burgettstown-Bulger Rd., 1.8 mi. Midway-Primrose Rd. and 0.27 mi. West Alexander-Mechanic Street Rd., all concrete. Chaney Eng. Co., co. engrs.

Delaware—Until June 10, by State Highway Dept., Dover, building 4.07 mi. road from Georgetown toward Laurel, 3.55 mi. road from Millsboro toward Oak Orchard, 4.41 mi. Dupont Rd., 14 ft. wide, 2 in. bituminous surface on concrete, asphalt or slag base, Sussex Co. About $135,000. C. M. Upham, ch. engr.

Md., Upper Marlboro—Until June 10, by Comrs. Prince Georges Co., resurfacing 6000 lin.ft. Upper Marlboro-Bowie Rd. with 4 in. limestone and grading shoulders to width of 4 ft. on either side of macadam. J. N. Mackall, 601 Garrett Bldg., Baltimore, engr.

W. Va., Elm Grove—Until June 12, by Town Council excavating and paving 1 mi. Wheeling, Woddle, Marshall, Liberty, and Springdale Sts., 14 ft. wide, vitr. brick or concrete on gravel base. Above $25,000. H. L. Maddocks, Newark, O., engr.

W. Va., Winfield—Until June 19, by Putnam Co., building 4 mi. Culloden-St. Albans Rd., grading 26 ft. wide, surfacing 16 ft. wide. Work involves 40,000 cu.yd. excav. and 37,000 sq.yd. of concrete, brick or asphaltic concrete. About $140,000. G. H. Travis, 4 Dyer Apartments, Charleston, engr. Noted May 29.

Ga., Brunswick—Until June 30, by Comrs. Glynn Co., paving 4.4 mi. (46,400 sq.yd.) road extending from here to picric acid plant. Federal Government will appropriate toward cost. C. Miller, chn.; E. R. Conant, Brunswick, consult. engr.; advertised in this issue.

Ga., Brunswick—Until June 30, by Mayor and Bd. Aldermen, paving about 110,000 sq.yd. streets. E. R. Conant, Brunswick, consult. engr.; advertised in this issue.

Ga., Dublin—Until June 16, by city, paving, draining and curbing 40,000 cu.yd. streets. Bids will be received on all classes of pavements. M. J. Guyton, city engr.

Ga., Hiawassee—Until June 27, by Comrs. Towns Co., grading and draining 12 mi. roads. About $70,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs.

Tenn., Jackson—Until June 23, by City Comrs., paving 8 streets, involving 52,000 sq.yd. sheet asphalt on concrete base, 1 street, 3350 sq.yd. sheet asphalt on macadam base, 5300 sq.yd. concrete alleys, 12,000 lin. ft. curbs, 3250 sq.yd. vitr. brick gutters and 6000 lin.ft. 12-24 in. vitr. storm drains. J. T. McCutchen, comr. pub. utilities.

O., Cleveland—City receiving bids paving East 137th St. from Livingston St. to Abell Ave., involving 23,500 sq.ft. paving, 1650 ft. curbing and 7900 sq.ft. 3 in. stone sidewalks; South Moreland Blvd. from Shaker Blvd. to Buckeye Rd., 32,000 sq.ft. paving, 3300 ft. curbing and 8000 sq.ft. 3 in. stone sidewalks; South Moreland Blvd. from Shaker Blvd. to Drexmore Ave., 25,000 sq.ft. paving, 2300 ft. curbing and 7000 sq.ft. 3 in. stone sidewalks; Southington Rd. from Livingston Rd. to city limits, 21,000 sq.ft. paving and 1950 ft. curbing; Ripley Ave. from Hampton Rd. to Ashwood Ave., 22,250 sq.ft. paving and 2200 ft. curbing; North Moreland Blvd. from Shaker Blvd. to Woodland Ave., 35,000 sq.ft. paving and 3800 ft. curbing; Ludlow Ave. from East 132nd St. to city limits, 53,000 sq.ft. paving and 4350 ft. curbing; Livingston Rd. from East 132nd St. to Abell Ave., 57,500

Streets and Roads (Continued)

sq.ft. paving, 4100 ft. curbing and 20,000 sq.ft. 3 in. stone sidewalks; Keswick Rd. from Hampton Ave. to city limits, 19,500 sq.ft. paving and 1720 ft. curbing; Hampton Rd. from East 132nd St. to Albion Rd., 57,000 sq.ft. paving and 5100 ft. curbing; Drexmore Rd. from South Moreland Blvd. to city limits, 25,750 sq.ft. paving and 1930 ft. curbing; Corby Ave. from Hampton to Ludlow Rds., 14,600 sq.ft. paving, 1250 ft. curbing and 6250 sq.ft. 3 in. stone sidewalks; Chadbourne Rd. from Drexmore Rd. to city limits, 19,200 ft. paving, 1600 ft. curbing and 4500 sq.ft. 3 in. stone flagging; Bechet Rd. from Hampton Rd. to city limits, 47,000 sq.ft. paving and 4000 ft. curbing; Ashland Ave. from East 132nd St. to city limits, 63,000 sq.ft. paving and 4300 ft. curbing; Albion Ave. from Hampton Ave. to city limits, 30,200 sq.ft. paving and 1250 ft. curbing; East 132nd St. from Shaker Blvd. to Griffing Ave., 127,000 sq.ft. paving and 11,200 ft. curbing; all 4 in. brick paving on 6 in. concrete base and 5 in. stone curbing. R. Hoffman, city engr.

O., Toledo—Until June 10, by D. H. Goodwillie, serv. dir., grading, draining, curbing and paving 1259 ft. Booth Ave., from Stickney Ave. to Brigham St., 24 ft. wide, involving 3554 sq.yd. paving, 2600 lin.ft. curbing and 1874 cu.yd. earth excav., estimated cost $16,591; 1259 ft. Bricker Ave. from Stickney Ave. to Brigham St., 24 ft. wide, 3554 sq.yd. paving, 2600 lin.ft. curbing and 2175 cu.yd. earth excav., $14,966; 1248 ft. Martha St. from Berdan to Phillips Aves., 24 ft. wide, 3362 sq.yd. paving, 2550 lin.ft. curbing and 1749 cu.yd. earth excav., $16,131; 4190 ft. Hudson St. from Lagrange St. to Stickney Ave., 24 ft. wide, 11,927 sq.yd. paving, 8400 lin.ft. curbing and 7172 cu.yd. earth excav., $49,428; 2581 ft. Oakdale Ave. from Oak St. to East Hway, 26 ft. wide, 7852 sq.yd. paving, 5200 lin.ft. curbi. g and 5012 cu.yd. earth excav., $35,724. Bids will be received on all types of pavement. H. C. McClure, city engr.

O., Toledo—Until June 23, by Comrs. Lucas Co., grading, draining, curbing and paving 1½ mi. Parkside roads and streets, 24 ft. wide, involving 21,530 sq.yd. paving, 14,760 lin.ft. stone curbing, 12,155 cu.yd. earth excav., etc.; bids will be received on all types of pavement, cost $110,326; 9892 ft. Key St., 16 ft. wide, 17,500 sq.yd. concrete and 5403 cu.yd. earth excav.; 6905 ft. Lyon Rd., 16 ft. wide, 12,500 sq.yd. waterbound macadam and 3764 cu.yd. earth excav.; $25,566; 7966 ft. Yondota Rd., 16 ft. wide, 14,300 ft. waterbound macadam and 2011 cu.yd. earth excav., $28,655; 4.39 mi. Sylvania-Alexis Rd., 16 ft. wide, 41,700 sq.yd. 6-8 in. concrete, 23,500 cu.yd. earth excav. and 13,600 ft. 6-10 in. drain tile, $119,125. C. L. Rood, co. engr.

O., Toledo—Until June 10, by D. H. Goodwillie, serv. dir., grading, draining, curbing and paving 1176 ft. Fremont St., 24 ft. wide, involving 3244 sq.yd. paving on 6 in. concrete base, 2390 lin.ft. curbing and 2404 cu.yd. earth excav. About $18,699. Bids will be received on all types of pavement. Noted May 22.

O., Willoughby—Until June 14, by C. C. Jenkins, village clk., building 47,000 sq.yd. brick pavement on 6-in. concrete foundation, cement grout filler, 33,000 lin.ft. concrete curb and gutter, and 12,000 lin.ft. 6-18 in. storm sewers; advertised in this issue.

Indiana—By Bd. Co. Comrs. building roads in following counties:

June 21, Hendricks Co., Danville, 21,102 ft. gravel and macadamized road, on line Monroe Twp., Morgan Co. and Liberty Twp., Hendricks Co. C. M. Havens, aud.

June 27, Jennings Co., Vernon, crushed stone road on county line Jackson Twp., Decatur Co., and Geneva Twp., Jennings Co. E. Bimish, aud.

July 7, Dubois Co., Jasper, 2 mi. and 13 rods crushed limestone road in Patoka Twp. J. H. Seng, aud.

Illinois—Until June 18, by State Highway Comn., Springfield, improving roads in following counties: Effingham Co., 22,445 ft. Sect. I, Natl. Highway, 16 ft. wide, involving 39,832 sq.yd. pavement, 22,370 cu.yd. excav., 166.3 cu.yd. concrete in culverts and bridges; 7724 ft. Sect. J, 18ft. wide, 15,230 sq.yd. pavement, 13,914 cu.yd. excav., 511.2 cu.yd. concrete; 10,425 ft. Sect. K, 18 ft. wide, 20,854 sq.yd. pavement, 13,743 cu.yd. excav., 104.9 cu.yd. concrete; 22,459 ft. Sect. L, 30 ft. wide, 95,239 cu.yd. excav., 700 cu.vd. concrete; 17,994 ft. Sect. M, 10 ft. wide, 31,831 sq.yd. pavement, 22,431 cu.yd. excav., 300 cu.yd. concrete; 27,887 ft. Sect. N, 16 and 18 ft. wide, 52,693 sq.yd. pavement, 16,313 cu.yd. excav., 478.6 cu.yd. concrete; 21,000 ft. Sect. G-15d, 16 and 18 ft. wide, 39,956 sq.yd. pavement, 10,638 cu.yd. excav., 146 cu.yd. concrete; 30,635 ft. Sect. B, Chicago-Joliet Highway, 18 and 20 ft. wide, 61,972 sq.yd. pavement, 9997 cu.yd. excav., 33.6 cu.yd. concrete; 35,847 ft. Sect. C, 18 ft. wide, 72,120 sq.yd. pavement, 24,045 cu.yd. excav., 270.4 cu.yd. concrete; Will Co., 27,450 ft. Sect. D, Chicago-Joliet Highway, 18 and 20 ft. wide, 55,520 sq.yd. pavement, 20,124 cu.yd. excav., 276.4 cu.yd. concrete; Iroquois Co., Sect. 3, Dixie Highway. C. Older, ch. highway engr.

Illinois—Until June 18, by State Highway Comn., Springfield, paving 4768 ft. Peoria-Springfield Highway, 16 ft. wide, Sect. M, Mason Co., involving 8316 sq.yd. pavement and 5047 cu.yd. excav. Alternate bids will be received on Portland cement concrete, 3 and 4-in. monolithic brick, bituminous concrete with or without binder course, (Spec. C1, C2, C3 or CT). C. Older, ch. highway engr.

Illinois—Until June 18, by State Highway Comn., Springfield, improving roads in following counties:

Bond Co., 1783 ft. Sect. E, Route 6, 10 ft. wide, involving 2120 sq.yd. brick pavement, 3000 cu.yd. excav., 92 cu.yd. concrete in bridges and culverts, cost $9266;

Ford Co., 3100 ft. Sect. D, Route 1, 10 ft. wide, 3440 sq.yd. brick, 1161 cu.yd. excav., $14,971;

Bureau Co., 3456 ft. Sect. F, Route 4, 15 ft. wide, 5760 sq.yd. concrete pavement, 1850 cu.yd. excav., 62 cu.yd. concrete, $10,990; 4000 ft. Sect. G, Route 1, 15 ft. wide, 6667 sq.yd. concrete, 2466 cu.yd. excav., 48 cu.yd. concrete, $11,486;

Fulton Co., 4200 ft. Sect. S, Route 4, 16 ft. wide, 7466 sq.yd. concrete, 3592 cu.yd. excav., 65 cu.yd. concrete, $15,800;

Lake Co., 6060 ft. Sect. J, Route 6, 18 ft. wide, 12,120 sq.yd. concrete, 4462 cu.yd. excav., 47 cu.yd. concrete, $21,400;

La Salle Co., 5940 ft. Sect. K, Route 15, 15 ft. wide, 9900 sq.yd. concrete, 2566 cu.yd. excav., 34 cu.yd. concrete, $15,930;

Livingston Co., 20,547 ft. Sect. G, Route 3, 10 and 18 ft. wide, 25,250 sq.yd. concrete, 14,650 cu.yd. excav., 282 cu.yd. concrete, $56,538;

McHenry Co., 2121 ft. Sect. K, Route 15, 16 ft. wide, 3771 sq.yd. concrete, 1057 cu.yd. excav., 7 cu.yd. concrete, $8262; 2336 ft. Sect. L, Route 17, 16 ft. wide, 4152 sq.yd. concrete, 1294 cu.yd. excav., 39 cu.yd. concrete, $7828;

Macoupin Co., 3274 ft. Sect. H, Route 7, 10 ft. wide, 3638 sq.yd. concrete, 4000 cu.yd. excav., 44 cu.yd. concrete, $7433;

Mason Co., 4000 ft. Sect. B, Route 1, 16 ft. wide, 7111 sq.yd. concrete, 1022 cu.yd. excav., $11,804;

Menard Co., 2000 ft. Sect. E, Route 4, 16 ft. wide, 3556 sq.yd. concrete, 2709 cu.yd. excav., 6 cu.yd. concrete, $6380;

Morgan Co., 3259 ft. Sect. D, Route 1, 16 and 18 ft. wide, 5972 sq.yd. concrete, 1493 cu.yd. excav., 9 cu.yd. concrete, $12,878;

Ogle Co., 7254 ft. Sect. F, Route 10 and 11, 10 and 16 ft. wide, 11,798 sq.yd. concrete, 4476 cu.yd. excav., 13 cu.yd. concrete, $19,428;

Shelby Co., 3750 ft. Sect. I, Route 5, 16 ft. wide, 6667 sq.yd. concrete, 2773 cu.yd. excav., 11 cu.yd. concrete, $12,007;

Edwards Co., 1550 ft. Sect. D, Route 2, 10 ft. wide, 1722 sq.yd. gravel, 1500 cu.yd. excav., 22 cu.yd. concrete, $3430;

Macoupin Co., 5200 ft. Sect. I, Route 12, 24 ft. wide, earth paving, 2530 cu.yd. excav., 52 cu.yd. concrete, $2200;

Woodford Co., 12,750 ft. Sect. G, Route 1, 24 ft. wide, 8305 cu.yd. excav., 72 cu.yd. concrete, $5938; 12,000 ft. Sect. J, Route 11, 24 ft. wide, both earth paving, 9578 cu.yd. excav., 86 cu.yd. concrete in culverts. C. Older, ch. highway engr.

Wisconsin—Until June 10, by State Highway Comn., Green Bay, grading and gravel surfacing 7.7 mi. Shawano Wittenberg Rd., 15 ft. wide, Shawano Co.; grading, draining and concrete surfacing 3.78 mi. Appleton Dale Medina Rd., 16 ft. wide, involving 8717 cu.yd. grading and 35,555 sq.yd. 8 in. concrete, cost $90,000; Outagamie Co., grading and gravel surfacing 4 mi. Stiles Jct., Oconto Falls Rd., 15 ft. wide, involving 9884 cu.yd. grading, $25,000; Oconto Co., grading and concrete surfacing 5¼ mi. Green Bay Appleton Rd., 16 ft. wide, involving 10,400 cu.yd. grading and 48,812 sq.yd. 8 in. concrete, Brown Co., $115,000. Noted Nov. 28.

Wis., Racine—Until June 14, by Bd. Pub. Wks. paving portions Lake Ave., involving 4590 sq.yd. brick and 2766 lin.ft. cement concrete combined curb and gutter; Yout St., 13,895 sq.yd. brick, 7232 lin.ft. combined concrete curb and gutter; Prospect St., 3850 sq.yd. brick, 2762 lin.ft. cement concrete combined curb and gutter; Milwaukee Ave., 17,700 sq.yd. brick, 7749 lin. ft. combined concrete curb and gutter; 7th St., 4460 sq.yd. brick, 2400 lin.ft. cement concrete gutter; Hilker Pl., 1342 sq.yd. asphaltic concrete, 966 lin.ft. cement concrete combined curb and gutter; Howland Ave., 2763 sq.yd. asphalt macadam, 1812 lin.ft. cement concrete combined curb and gutter, 2379 cu.yd. excess grading, 2880 sq.ft. cement walk. 10th St., 3634 sq.yd. asphaltic concrete, 2436 lin.ft. cement concrete curb and gutter; Davis Pl. 805 sq.yd. asphaltic concrete, 966 lin.ft. cement concrete combined curb and gutter; Blake Ave., 8400 sq.yd. sheet asphalt, 4400 lin.ft. combined concrete curb and gutter; Howe St., 10,050 sq.yd. sheet asphalt, 5313 lin.ft. cement concrete combined curb and gutter; Main St., 1100 sq.yd. sheet asphalt, 432 lin.ft. cement concrete gutter; building Portland cement concrete curb and gutter on portions Buchanan St., 2678 lin.ft. combined curb and gutter, 498 lin.ft. cement gutter. Noted Feb. 20.

Iowa—Until June 11, by F. R. White, superv. state roads, Ames, improving 3862 lin.ft. of Sects. D, E and F of west road passing through grounds of Iowa School for Deaf at Council Bluffs, 18 ft. wide, involving 7724 sq.yd. vitr. brick, 7724 sq.yd. concrete, and 780 cu.yd. excav. About $24,000. Noted May 1 under "Council Bluffs."

Ia., Garner—Until June 12, by Bd. Supervs. Hancock Co., improving 5½ mi. road, Sects. A, B, C, D and E, from here to Miller Rd., 10-24 ft. wide. About $12,000. Work involves grading, loading, hauling, spreading and rolling gravel surface, 4614 cu.yd. gravel and 16,757 cu.yd. excav. C. F. Merton, co. engr.

Ia., Iowa City—Until June 9, by Bd. Supervs. Johnston Co., grading 10.89 mi. and paving 1.09 mi. with rein.-con., monolithic or bituminous filled brick, Federal Aid Project No. 9, 18 and 24 ft. wide, involving 13,371 sq.yd. vitr. brick or concrete, 2153 lin.ft. curbing and guttering and 78,964 cu. yd. excav. About $72,800. A. F. Fischer, co. engr.

Ia., Red Oak—Until June 18, by Bd. Supervs. Montgomery Co., grading 15.93 mi. Federal Aid Project No. 16, 24 ft. wide, involving 209,976 cu.yd. excav. About $100,300. B. Conlon, co. engr. Noted Dec. 12.

Ia., Sidney—Until June 20, by City Council, paving Main and adjoining streets, involving 40,000 sq.yd. brick, asphaltic concrete or concrete. Archer & Stevens, New England Bldg., Kansas City, Mo., engrs.

Ia., Waterloo—Until June 10, by Bd. Supervs. Blackhawk Co., grading and paving with rein.-con., monolithic or bitumen filled brick 4.05 mi. Federal Aid Project No. 25, 18 ft. wide, involving 47,499 sq.yd. vitr. brick or concrete, 8276 lin.ft. 6 in. and 3160 lin.ft. 10 in. vitr. tile and 16,681 cu.yd. excav. About $130,500. C. M. Fisher, co. engr.

Minn., Duluth—Until June 10, by J. A. Farrell, city comr., grading and paving 3250 ft. 59th Ave., W., from Main to Elinor Sts., 18-32 ft. wide, involving 39,666 sq.yd. concrete and 14,000 lin.ft. concrete curbing. About $75,000. E. K. Coe, Engineer's Office, City Hall, engr.

Minn., Little Falls—Until June 18, by Comrs. Morrison Co., building 11.9 mi. Federal Aid Project No. 24, State Rd. No. 3, involving 47,900 cu.yd. excav., 13,000 yd. gravel surfacing, etc. About $60,000. A. J. Fenn, Little Falls, engr.

Minn., Minneapolis—Until June 16, by Comrs. Hennepin Co., grading 4 mi. Co. Rd. No. 9, Medina Twp. About $20,000. E. E. Terrell, co. surv.

Kan., Harper—Until June 10, by A. E. Crocker, clk., for 5265 sq.yd. brick or asphaltic concrete paving and 14,185 ft. combined curb and gutter. G. W. Ellis, Pratt, engr.

Streets and Roads (Continued)

Kan., Junction City—Until June 19, by Geary Co., building (a) 39,445 ft. Golden Belt Rd., 18 ft. wide, 2 course Portland cement concrete, (b) bridges and culverts on same; Federal Aid Project No. 10. M. W. Watson, c/o State Highway Comn., Topeka, acting engr.

Kan., Wichita—Until June 23, by Sedgwick Co., building 2 sections Federal Aid Project No. 24, (a) 31,455 ft., (b) 31,495 ft., both 18 ft. wide, brick. M. W. Watson, c/o State Highway Comn., Topeka, acting engr.

Neb., Lincoln—Until June 14, by T. H. Berg, city clk., paving and building storm sewers in 25th, 29th and Clinton Sts., involving 6035 sq.yd. asphaltic concrete on 5-in. concrete base, 23 sq.yd. concrete, 4820 lin.ft. concrete curb and gutter, 100 lin.ft. sidewalk, 327 cu.yd. earth excav., 70 lin.ft. 18-in. and 350 lin.ft. 24-in. sewer. G. W. Bates, engr.

Neb., St. Edwards—Until June 19, by E. G. Criss, city clk., paving 12 blocks Beaver St., involving 19,182 sq.yd. vertical fibre, asphalt or concrete on 5-in. concrete base, 6440 lin.ft. curb and gutter. Grant Fulton & Letton, Lincoln, engrs.

Mo., Excelsior Springs—Until June 12, by City Council, resurfacing 680 ft. Elms Blvd., 36 ft. wide, involving 3407 sq.yd. bituminous macadam, penetration method, cost $4360; 1200 ft. Kansas City Ave., 30 ft. wide, 4710 sq.yd. vitr. brick on old base, asphalt filler, $13,000. C. A. Shockley, 740 Reserve Bank Bldg., Kansas City, engr. Noted May 22.

Ark., Fayetteville—Until June 16, by Bd. Comrs. Washington Co. Rd. Dist. No. 2, building 52 mi. limestone macadam and 2 mi. bituminous macadam road through Winslow, Fayetteville and Goshen Twps. Separate bids will be received on steel bridges and culvert tile. Hamilton & Shreve, Fayetteville, engrs; advertised in this issue.

Tex., Canton—Until June 10, by Comrs. Van Zandt Co., surfacing and laying 19,388 cu.yd. iron ore gravel, and building necessary structures, etc., on 9.89 mi. Highway No. 15, known as Dixie Highway, 15 ft. wide. Work involves 62,330 cu.yd. unclassified earth excav., 704 cu.yd. concrete, 72,373 lb. reinforcing steel and 268 ft. 24-36 in. c.i. pipe. About $108,993. Hess & Skinner, South Western Life Bldg., Dallas, engrs. Noted Oct. 3.

Tex., Gonzales—Until June 11, by Comrs. Gonzales Co., clearing, grubbing, grading, graveling, etc., 17.18 mi. State Highway No. 3.

Okla., Yale—Until June 9, by C. F. Ford, city clk., building 20,000 sq.yd. asphalt paving and one 30 ft. concrete arch bridge. About $100,000. C. A. Wood, Stillwater, engr.

Utah—Until June 10, by State Highway Comn., Salt Lake City, building 6.3 mi. road from north city limits of Logan to Smithfield, 18 ft. wide, 8.13 mi. from south limits of Logan to Wellsville, 18 ft. wide, Cache Co., 4.81 mi. from Provo to north city limits of Spanish Fork, 18 ft. wide, Utah Co. Alternate bids on 6-8 in. plain cement concrete and bituminous concrete on 4-6 in. cement base. I. R. Browning, 1516 Harvard Ave., Salt Lake City, engr.

Utah—Until June 31, by State Highway Comn., Salt Lake City, paving 4.85 mi. 33rd St. S. from 56th St. to Magna St., 18 ft. wide, 6-8 in. rein.-con., Salt Lake Co. I. R. Browning, 1516 Harvard Ave., Salt Lake City, engr.

Utah—Until June 10, by State Rd. Comn., Salt Lake City, paving and grading 14.43 mi. road, 6-8 in. cement concrete or 2 in. bituminous top on 4-6 in. concrete base. I. R. Browning, 1516 Harvard Ave., Salt Lake, City, engr.

Utah, Salt Lake City—Until June 9, by Salt Lake Co., hard surfacing 6.88 mi. road from Bingham Highway to Redwood Rd., 18 ft. wide. Bids will be received on (1) cement-concrete, (2) bituminous concrete on concrete base, (3) bituminous concrete on crushed rock base, (4) tarvia macadam on concrete base, (5) tarvia macadam on crushed rock base. G. Bywater, co. engr.

Wash., Aberdeen—Until June 27, by City Council, building concrete sidewalks on Bway., G, H, I, K, L, 1st, 2nd, 4th, 5th and 8th Sts., 6 ft. wide, 45 blocks in all, involving 18,000 sq.yd. 4-in. concrete. A. H. Blood, city engr.

California—Until June 9, by State Highway Comn., 515 Forum Bldg., Sacramento, building 14.9 mi. road between Merced and easterly boundary Merced Co., involving 48,400 cu.yd. excav., 15,381 cu.yd. Class "A" Portland cement concrete pavement, etc.; 8.2 mi. road between Coalinga and Oil King School, Fresno Co., 26,000 cu.yd. excav., 14,599 cu.yd. Class "A" Portland cement concrete, etc. A. B. Fletcher, state highway engr.

California—Until June 16, by Highway Comn., Sacramento, grading and improving 2.8 mi. road between Freshwater Lagoon and Orick, 24 ft. wide, involving 2016 lin.ft. 12-24 in. concrete pipe, 65 cu.yd. Class "C" concrete, 114 monuments, and 38,610 cu.yd. excav.; 7.9 mi. road between Last Chance Slide and Cushion Creek, 24 ft. wide, 5138 lin.ft. 12-36 in. concrete pipe, 453 monuments, 380 cu.yd. Class "C" concrete and 236,400 cu.yd. excav. F. G. Sommer, Willett, engr.

Ont., Guelph—Until June 14, by T. J. Moore, city clk, for 22,000 sq.yd. paving. About $75,000. F. McArthur, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract to McGuire & McGoutry, Boston, paving Selwyn St. et al., involving 5900 sq.yd. asphalt on 7-in. concrete base, 3520 lin.ft. stone curbing, 23,315 sq.ft. concrete sidewalks, 2927 cu.yd. earth excav., cost $26,067; Cameron St., 7325 sq.yd. asphalt on 7-in. concrete base, 2240 lin.ft. stone curbing, 3767 cu.yd. earth, and 10 cu.yd. rock excav., $28,462.

★**Mass., Boston**—City let contract paving Main St., Charleston Dist., to W. J. Barry Co., 30 Fenwood Rd., $125,099. Work involves 28,000 sq.yd. granite block, 364 lin. ft. new stone curbing, and 92,720 sq.ft. concrete sidewalk, etc.

★**Mass., Chicopee**—Bd. Pub. Wks. let contract, to A. S. Rouillard, 14 Parshley St., improving various streets by building (a) concrete walks at $1.20 per sq.yd.; (b) concrete crosswalks, $1.25; (c) tar recoat, $.90; (d) cement concrete, $1.60; (e) excavating, $.35 per cu.yd. and (f) sand filling, $.35. Noted May 29.

★**New York**—State Highway Comn., Albany, let contracts completing roads in following counties: Nassau Co., 4.98 mi. No. 1342, Roslyn-Port Washington, to J. W. Mitchell, Port Washington, $121,200; 3.09 mi. No. 1343, Westbury-Hicksville, to Mallory & Walsh, Brooklyn, $80,003; 3.38 mi. No. 1344, Green Corner-Francis Pond, to T. F. Toohey, Inc., Flushing, $73,296; Wayne Co., 3.97 mi. No. 1407, Newark-Sodus, Part 1, to W. J. Semper, Watertown, $42,586; also repairing following: Montgomery Co., Repair No. 1171, Rd. 864, to H. Z. and L. Wemple, Fultonville, $4001; Westchester Co., Repair No. 1218, Rd. 503, to L. Petrillo, Mt. Vernon, $39,341; Repair No. 1220, Rds. 52 and 53, to J. Dimendo, 382 Mamaroneck Ave., Mamaroneck, $9016. Noted May 22.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids May 28, regulating, grading, curbing and laying sidewalks on (a) Dumont Ave.; (b) East 4th St. from Ave. I to J and excavating to sub-grade of 9 in. Ave. I from East 3rd to East 4th Sts.; regulating and paving with permanent asphalt on 6-in. concrete foundation, (c) East 4th St. from Ave. I to J and Ave. I from East 3rd to East 4th Sts.; (d) East 17th St.; (e) 67th St., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, (a) $3819; (c) $15,404; (d) $13,785; (e) $9844; Cranford Co., 52 9th St., (a) $3922; (c) $15,566; (d) $15,181; (e) $9939; Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $3935; (c) $15,919; (d) $14,177; (e) $10,082; Grimm Constr. Co., 460 Herold Ave., Richmond Hill, (b) $4488; C. A. Myers, foot of Stagg St., (b) $4753; L. Mangeri, (b) $4849; Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., (c) $15,787; (d) $15,631; (e) $9785. Noted May 22.

★**N. Y., Brooklyn**—E. Riegelman, boro. pres., let contracts regulating and repaving with permanent asphalt on 6 in. concrete foundation, Bay 22nd St., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $16,-141; River St., to Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., $47, 710; Warren St., to Cranford Co., 52 9th St., $100,736; 65th St., to Scott & Kurth, West New Brighton, S. I., $3221. Noted May 29th.

N. Y., New York—H. Bruckner, pres. Bronx Boro., received bids May 27, repaving with granite blocks on concrete foundation, (a) Southern Blvd.; (b) East 153rd St.; (c) East 154th St.; (d) Burnside Ave.; (e) Kinsella St.; (f) Wilkens Ave.; (g) Cypress Ave.; from O'Rourke Constr. Co., 150 Nassau St., (a) $184,586; (b) $27,533; (c) $10,741; (f) $47,381; (g) $60,805; Asphalt Constr. Co., 2197 Madison Ave., (a) $193,373; (d) $20,980; (f) $48,864; (g) $67,173; T. Callahan, (a) $198,878; (c) $10,923; (f) $48,652; S. S. Davis, (b) $27,-588; (d) $23,731; (f) $40,158; C. Helbrok, (b) $28,165; (c) $11,171; (d) $21,-629; (g) $60,824; P. J. Kerns, (c) $11,118; (d) $22,430; (f) $47,472; (g) $66,968; Burnside Contg. Co., 270 Burnside Ave., (b) $28,287; (c) $11,046; (d) $19,298; A. F. Del Balso, 1481 Hoe Ave., (e) $6038; C. Del Balslo, (e) $6194; Anita Constr. Co., (e) $6293; Uvalde Asphalt Paving Co., 1 Bway., (g) $65,724. Noted May 22.

★**N. Y., New York**—F. L. Dowling, pres. Manhattan Boro., let contract regulating and repaving with sheet asphalt on concrete foundation, William and 7th Sts., to Sicilian Asphalt Paving Co., 41 Park Row, $31,534 and $6996 respectively; 59th St., to Cleveland Trinidad Paving Co., Flushing, $41,874; Amsterdam Ave., to Uvalde Asphalt Paving Co., 1 Bway., $78,978; East 120th St., to Asphalt Constr. Co., 2197 Madison Ave., $20,317. Noted May 22.

New Jersey—State Highway Comn., Broad St. Bank Bldg., Trenton, received bids building 36,413 sq.yd. State Highway Route No. 1, from Windsor to Hightstown, 18 ft. wide, from Heyman & Goodman, 5 Exch. Pl., Jersey City, $154,453; C. H. Winans Co., 207 Broad St., Elizabeth, $165,-268; C. H. & R. C. Pickworth, New York City, $166,723; 30,869 sq.yd. State Highway Route No. 4, Sect. 2, from Middletown to Betsy Ross, 18 ft. wide from Hugh Nawn Constr. Co., 1211 Chestnut St., Phila., $188,079; D. G. Aronberg, Norfolk, Va., $192,165; Langthorn Co., Inc., 2 West 45th St., New York City, $199,411.

★**N. J., Plainfield**—City let contract for paving various streets with brick, to Newark Paving Co., 133 1st St., Newark, $70,-603; with concrete, to J. F. Burke Co., 309 Park Ave., $39,343.

★**Pennsylvania**—State Highway Dept., Harrisburg, let contracts building roads in counties as follows:

Blair Co., 13,623 ft. rein.-con. or bituminous, Antis Twp., to J. M. Hutchinson, Altoona, $102,520.

Butler Co., 33,229 ft. bituminous or rein.-con., Butler and Penn Twps., to Booth & Flynn, Ltd., 1942 Forbes St., Pittsburgh, $230,970.

Clinton Co., 4984 ft. rein.-con., Avis Twp., to Busch & Stewart, Trust Bldg., Williamsport, $37,342.

Crawford Co., 16,552 ft. bituminous or rein.-con., Cambridge Twp., to R. Swan, Jr., Co., 1 Jenkins Arcade, Pittsburgh, $118,347.

Dauphin Co., 33,917 ft. reinforced cement concrete, Dauphin Boro, Middle Paxton and Read Twps., to H. Nawn Contg. Co., 1211 Chestnut St., Phila., $294,077.

McKean Co., $53,372 ft. rein.-con., Otto, Keating and Foster Twps., to Warren-Moore Co., 13th and Market Sts., Phila., $443,913.

Venango Co., 9550 ft. rein.-con., Sugar Creek Twp., to Harris Contg. Co., Meadville, $60,002.

Westmoreland Co., 2085 ft. rein.-con., Adamsburg Boro., to G. S. White Co., Pittsburgh, $17,087. Noted May 8.

Pa., Barnesboro—Boro Council, c/o Cambria Co. Controller, Ebensburg, let contract building 3300 ft. brick road 18 ft. wide with concrete base and curb, extending northward toward Hastings, to Lord & Clark, Hastings, $35,108. Noted May 8th.

Pa., Pittsburgh—Comrs. Allegheny Co. received bids grading, paving and curbing 2050 ft. Main St., Baldwin Twp., from Library Rd. to Carrick Boro. line, 24 ft. wide, from M. Ott Co., 414 Warrington Ave., $34,135; J. H. McQuade, Bakewell Bldg., $36,925; R. Swan, Jr., Jenkins Arcade, $39,554. Noted May 8.

★**W. Va., Beckley**—Comrs. Raleigh Co. let contracts building 4 mi. Besoco-Odd Rd., 20 ft. wide, to G. T. Franklin, Beckley, $39,014; Surveyor—Marshes, Harper and Guyandotte Rds., to Henning & Hagedorn, Charleston, $100,000. Noted May 15.

Streets and Roads (Continued)

★**W. Va., Parkersburg**—Comrs. Wood Co. plan to build 5 mi. Parkersburg-Elizabeth and Northwestern Turnpikes, 16 ft. wide, involving 85,000 cu.yd. grading and 47,000 sq.yd. cement concrete surface. Work will be done by day labor. Noted May 22.

★**W. Va., Spencer**—Comrs. Roane Co. let contract building 5 mi. road in Walton Dist. to Board & Duffield, 1012-14 Virginia St., Charleston. About $50,000. Noted May 15.

★**La., New Iberia**—City let contract paving Main St. and Railroad Ave., to Southern Bitulithic Co., Weis Bldg., New Orleans, $119,198. Noted Apr. 3.

Ohio—State Highway Comn., Columbus, received bids May 26, building roads in counties as follows:

Ashtabula Co., Sects. "N, O and P." Cleveland-Buffalo Rd., 11.92 mi., grading and constructing gutter, from T. P. Fitzgerald, Ashtabula, $63,000.

Auglaize Co., Sect. "A-3" Wapakoneta-St. Marys Rd., 2.19 mi. grading, constructing bridges and culverts and paving with brick, Ball & Cook, Dayton, $82,522; Lewis & Copeland, Lima, $84,812; Scully Bros., Cincinnati, $96,277; paving with bituminous concrete on concrete foundation, Williams & Little, Franklin, $78,275; Ball & Cook, $78,650; H. P. Streicher Co., 319 Terminal Bldg., Toledo, $80,818; paving with plain concrete, Ball & Cook, $59,159; York & Studebaker, Greenville, $60,083; Lewis & Copeland, $61,481.

Sect. "B-1" Wapakoneta-St. Marys Rd., 2.29 miles, grading, constructing bridges and culverts and paving with brick on concrete foundation, Ball & Cook, $82,967; W. N. Crissain, Rockford, $85,378; Renick & Smith, Findlay, $85,378; paving with bituminous concrete on concrete foundation, Williams & Little, $78,663; Ball & Cook, $79,032; H. P. Streicher Co., $81,303; paving with plain concrete, Ball & Cook, $59,-199; A. Huber, Tippecanoe City, $61,276; York & Studebaker, $61,502.

Sect. "B-2" Wapakoneta-St. Mary's Rd., 2.05 mi., grading, constructing bridges and culverts and paving with brick on concrete foundation, Ball & Cook, $73,525; Lewis & Copeland, $75,688; Scully Bros., $86,458; paving with bituminous concrete on concrete foundation, Williams & Little, $69,-548; Ball & Cook, $69,886; H. P. Streicher Co., $71,952; paving with plain concrete, Ball & Cook, $51,930; Lewis & Copeland, $54,233; York & Studebaker, $54,647.

Columbiana Co., Sect. "E-1" Lisbon-Canton Rd., constructing 131 ft. bridge, 20 ft. wide, G. A. Stine, Niles, $13,056; N. R. Porterfield, Youngstown, $13,331.

Jefferson Co., Sect. "D" Steubenville-Hammondsville Rd., 3.14 mi. grading, constructing bridges and culverts, W. F. Payne, 810 North Limestone St., Springfield, $35,439; Summit Constr. Co., Akron, $35,-669; Frazier & Daugherty, Bloomingdale, $35 909.

Medina Co., Sects. "P and Q" Cleveland-Wooster Rd., 4.73 mi. grading, constructing bridges and culverts and paving with bitumious macadam, G. S. Mellert & Co., Medina, $129,209; Highway Constr. Co., Elyria, $140,514; Hart & Kemp, Elyria, $142,083.

Monroe Co., Sect. "E" Barnesville-Woodsfield Rd., 3.148 mi. grading and paving with waterbound macadam, W. W. Patton, Woodsfield, $55,288.

Sect. "F" Barnesville-Woodsfield Rd., 4.074 mi. grading and paving with waterbound macadam, W. W. Patton, $57,921.

Morrow Co., Sects. "E and F" Mansfield-Mt. Gilead Rd., 4.10 mi. grading, constructing bridges and culverts and paving with plain concrete, Brewer & Brewer Sons, Chillicothe, $112,502.

Preble Co., Sect. "F" Dayton-Indianapolis Rd., building 120-ft. bridge, 18 ft. wide, Brookville Bridge Co., Brookville, $6,605; Capitol Constr. Co., Ruggery Bldg., Columbus, $7,503; Oregonia Bridge Co., Lebanon, $7,625.

Richland Co., Sect. "P" Mansfield-Ashland Rd., 3.38 mi. grading, constructing bridges and culverts and paving with plain concrete, J. F. Hipskind, Richmond, Ind., $90,792; H. S. Scott, Ashland, $90,935; paving with bituminous macadam, Galion Constr. Co., Galion, $113,979.

Sect. "A" Shelby-Ashland Rd., 1.98 mi., grading, constructing bridges and culverts and paving with bituminous macadam, Scott, Fike & McNabb Co., Ashland, $54,-080; paving with plain concrete, Scott, Fike & McNabb Co., $44,326.

Sect. "B" Belleville-Lexington Rd., 1.92 mi., grading, constructing bridges and culverts and paving with bituminous macadam, Galion Constr. Co., $47,496.

Stark Co., Sects. "A and B" Lincoln Highway, 8.04 mi., grading, constructing bridges and culverts and paving with brick, Holmes Constr. Co., Millersburg, Sect. "A," $234,628; Sect "B," $155,768.

Van Wert Co., Sect. "F," Van Wert-Delphos Rd., 4.75 mi., grading, constructing bridges and culverts and paving with waterbound macadam, P. Shindledecker, Van Wert, $103,610; C. B. Rector, Muncie, Ind., $103,880; McArthur & Fox, Kenton, O., $110,212.

Sect. "G" Van Wert-Delphos Rd., 3.41 mi. grading, constructing bridges and culverts and paving with bituminous macadam, S. Putnam, Van Wert, $72,628; C. B. Rector, $74,242; McArthur & Fox, $78,323.

Sect. "H" Van Wert-Delphos Rd., 2.59 mi. grading, constructing bridges and culverts and paving with bituminous macadam, N. B. Putnam, Van Wert, $59,843; McArthur & Fox, $60,909; C. B. Rector, $60,965.

Williams Co., Sect. "C" Bryan-Wauseon Rd., 2.05 mi. grading, constructing bridges and culverts and paving with rein.-con., C. L. Straw, Paulding, $58,068; paving with bituminous concrete, Municipal Constr. Co., Gary, Ind., $67,261; Johnson, Van Wagner & Johnson, Tontogany, O., $67,827.

Medina Co., Sect. "A' Cleveland-Wooster Rd., 1 mi., grading and paving with bituminous macadam, Ohio Constr. Co., Elyria, $14,419; Doyle & Honahan, Springfield, $14,740; Highway Constr. Co., Elyria, $14,-787. Noted May 15.

★**O., Cleveland**—City let contracts paving Champion Ave. from West 101st St. to West Blvd. and Ignatius Ave. from West Blvd. to West 105th St., to Cleveland Trinidad Paving Co., The Arcade, $12,259 and $16,863 respectively. Noted May 22.

★**O., Cleveland**—City let contract paving West 24th St. from Moore Ave. to Willeyville Allt., to Roehl Bros., West 25th St. and Clark Ave., $16,667; Aetna Rd. from Erie R.R. west, to Enterprise Paving Co., 8436 Bway Ave., $10,300. Noted May 22.

O., Cleveland—City received bids paving (a) Hodgeson Ave. from Fulton Rd. to West 44th St., (b) Independence Rd. from Fleet Ave. to city limits, from Roehl Bros., West 25th St. and Clark Ave., (a) $11,270; Baldwin Bros., 4500 Euclid Ave., (a) $11,-746, (b) $16,555; Freshwater Paving Co., 11712 Detroit Ave., (a) $11,924; Rieley Bros., 357 The Arcade, (b) $16,390; A. M. Pejsa, 2259 East 93rd St., (b) $16,605. Noted May 22.

★**O., Columbus**—City let contracts, to Franklin Asphalt Paving Co., Columbus, grading, curbing, paving and laying water mains in 783 ft. Stanley Ave. from Parsons Ave. to eastern terminus, $7120; 913 ft. Linwood Ave. from Bryden Rd. to Main St., $8844; 1023 ft. Noble St. from Washington to Parsons Ave., $10,887; 1269 ft. 21st. St. from Broad St. to Franklin Ave., $9044; all asphalt. Noted May 29.

★**O., Hamilton**—City let contract building cement sidewalks in all parts of city, to W. J. Pabst, Hamilton. About $12,000.

★**O., St. Marys**—City let contract paving 1300 ft. East Spring St., to W. Howell, Wapakoneta, $18,161.

O., Toledo—City received bids paving (a) 1494 ft. Burnham Ave. from Sylvania to Maple Aves., (b) 1309 ft. Upton Ave. from Dorr St. to Avondale Ave., (c) Kingston Ave. from Navarre Ave. to Earl St., (d) Vermaas Ave. from Phillips to Cornelia Aves., (e) 1262 ft. Berkley Dr. from Sylvania to Berdan Aves., (1) rein.-con. (2) brick, (3) sheet asphalt, (4) wood block, from J. McMahon, 444 Melrose Ave., (a1) $18 992, (a2) $24,104, (d1) $23,520, (d2) $29,169, (d4) $31,859, (e2) $17,820; H. P. Streicher, 319 Terminal Bldg., (a3) $25,-618; P. Watters, 323 Nasby Bldg., (b1) $16,877, (b2) $22,046; Russel & Jennison, 2463 Bway., (b4) $23,747, (c1) $16,149; (c4) $22,736, (e4) $19,965; J. Horan, Valentine Bldg., (c3) $21,108; Peters Bros., 237 Marion St., (e1) $14,264. Noted May 15.

★**Mich., Grosse Pointe**—Village let contract paving one side Grosse Pointe Blvd. from Fisher Rd. to Provencal Blvd., to Moran Constr. Co., Grosse Pointe. About $75,000. Work involves 17,600 sq.yd. 9 in. concrete pavement, concrete curb, etc.

★**Illinois**—State Highway Comn., Springfield, let contracts improving following roads: 3240 ft. Sect. G., Route 7, Marion Co., to H. H. Hall Constr. Co., East St. Louis, $7582; 3650 ft. Sect. D., Route 8, Coles Co., to A. C. Loomis Co., Mattoon, $13,726; 3370 ft. Sect. H., Route 2, Jersey Co., to E. Conners, Jerseyville, $4007, 4 bridges on Sect. D., Randolph Co., to P. Loesche, Red Bud, $6354. Noted May 15.

★**Illinois**—State Highway Comn., Springfield, let contract improving 7.24 mi. Sect. 9, 10 and H-15d, Dixie Highway, Will Co., to Chicago Heights Coal Co., Chicago Heights, $252,800. Noted May 15.

★**Illinois**—State Highway Comn., Springfield, let contracts, to H. Nelch, 321 East Jackson St., Springfield, improving Springfield-Peoria Highway, Sect. A-015d and N, $143,050; to Bates & Rogers, 47 Van Buren St., Chicago, Sects. B, C and D, $142,983; E, F, F-15d, O, G, H, C-15d, and P, $6v,-000; J, $137,474; to G. Welch, Beloit, Wis., Sect. I, $127,738; to Jensen & Schaefer, Pekin, Sect. L-15d and O, $137,862; to Federal Paving Co., 133 West Washington St., Chicago, improving Peoria-Henry Highway, Sect. B, $71,294; Sect. C, $67,057 and Sect. M, $80,441; to Cameron Joyce Co., Keokuk, Ia., Sect. G-15d, D and E, $108,-000. Noted May 8.

★**Wis., Appleton**—Outagamie Co. let contract grading, draining and concrete surfacing 1.5 mi. Kaukauna-De Pere Rd., 16 ft. wide, involving 15,000 sq.yd. 8-in. concrete, to C. Gruenke, Appleton, about $35,-000; ½ mi. Kaukauna-Little Chute Rd., 16 ft. wide, involving 7500 sq.yd. 8-in. concrete, to J. McCarthy, Kaukauna, $15,000.

Wis., Milwaukee—Milwaukee Co. received lowest 3 bids for concrete paving and grading Howell Rd. No. 4, 16 ft. wide from Milwaukee Genl. Constr. Co., 872 2nd Ave., $53,308; G. E. Czerwinski, 309 Mitchell St., $54,920; Blodgett-Clayton Constr. Co., M. & M. Bank Bldg., $55,060. Noted May 22.

★**Wis., Milwaukee**—Milwaukee Co. let contract asphalt resurfacing 1.1 mi. Kilbourn Rd. No. 1, 18 ft. wide, to White Constr. Co., 97 Wisconsin St., $21,840.

★**Wis., Sheboygan**—City let contract grading and paving with 4 in. vitr. brick, also constructing sidewalks with combined curb and gutter on 1.1 mi. North 9th St. and Wisconsin Ave., 18 ft. wide, to Pester & Naumer, 1130 Ontario Ave., $12,352. Work involves 5350 sq.yd. vitr. brick and 2500 lin.ft. concrete curb and gutter. Noted May 22.

★**Wis., Sheboygan**—City let contract grading, paving, curbing and guttering 1.5 mi. Lighthouse Court and 22nd St., 18 ft. wide, to J. Brown Constr. Co., Pennsylvania Ave., $10,550. Work involves 5500 sq.yd. 2 course concrete and 3075 lin.ft. concrete curb and gutter. Noted May 22.

★**Ia., Estherville**—Comrs. Emmett Co. let contract grading 13½ mi. roads, 24 ft. wide, to O'Hanlon & Reilly, 306 South 24th St., Omaha, Neb. About $26,744. Work involves 66,200 cu.yd. earth excav.

★**Ia., Estherville**—Comrs. Emmett Co. let contracts building Wallingford-Hoppe, Hoppe-Ringstead and Ringstead-Bancroft R'ds. as follows; 6½ mi. to H. Haworth, $0.40 per yd., 5½ mi., to B. Olson, $0.40 to $0.44 per yd. and 4 mi., to C. A. Torrence, $0.40 per yd. Contractors all of Estherville. Noted May 1.

Ia., Mason City—Comrs. Cerro Gordo Co. received bids grading, sub-grading and paving with concrete 8870 ft. road from here to Manly and Plymouth, 16-18 ft. wide, from Wright Constr. Co., Des Moines, $51,-481; Empire Constr. Co., 203 Flynn Blk., Des Moines, $56,616. Work involves 18,877 sq.yd. 7-in. concrete, 3600 cu.yd. earth and 670 cu.yd. rock excav. Noted May 8.

★**Minn., Minneapolis**—Comrs. Hennepin Co. let contract paving 5½ mi. Lyndale Ave. from city limits to Ft. Snelling-Shakopee Rd., 18 ft. wide, to Genl. Contg. Co., 1254 Plymouth Bldg., $192,848. Noted May 15.

★**Kan., Anthony**—City let contract paving 8000 sq.yd. South Anthony Ave. from Main to Hayes Sts., rein.-con., to H. L. Cook, Ottawa, at $2.90 per sq.yd. Total cost, $23,200.

★**Kan., Hutchinson**—Reno Co. let contract building Sects. "B" and "C" of Santa Fe Trail, 18 ft. wide, to Stanley-Mackey Constr. Co., Hutchinson, (B) $100,-823; Wheeler-Lebener Constr. Co., Hutchinson, (C) $89,441.

★**Neb., Lincoln**—City let contract paving Ryon Ave., 19th and T Sts., 25 ft. wide, to Abel Constr. Co., 318-19 Terminal Bldg., $22,265. Work involves 2735 sq.yd. asphaltic concrete, 4300 sy.qd. sheet asphalt, 60 sq.yd. concrete, 7035 ft. 5-in. concrete base, 60 lin.ft. concrete curb, 5410 lin.ft. concrete gutter and curb, and 927 cu.yd. earth excav.

Streets and Roads (Continued)

★**North Dakota**—State Highway Comrs. Bismarck, let building Federal Aid Project No. 31, to **A. J. Jackson, Jamestown, $25,-581.**

Mont. Dillon—City let contract paving 26,458 sq.yd. Impvt. Dist. No. 5, to Clifton, Applegate & Toole, 2 North Cedar St., Anaconda, $86,005. Noted Apr. 17.

★**Tex., Columbus**—Colorado Co. let contract building 17.12 mi. Highway No. 4 from Weimer through Columbus to Eagle Lake, 16 ft. wide, to Haden & Austin, 727 Kress Bldg., Houston, $111,702. Noted June 5.

★**Tex., Haskell**—Comrs. Haskell let contract improving 16,797 mi. Highway No. 39, 24 ft. wide, to C. Whitener, Spur, $26,106. Noted May 29.

★**New Mexico**—State Highway Comn., Santa Fe, let contract grading and surfacing 17 mi. Federal Aid Project No. 12, Chaves Co., to A. Olson and L. A. Burnham, Laverne, Oklahoma. Cost to exceed $100,000.

Idaho, Boise—City let contract building road, to Warren Bros. Co., Journal Bldg., Portland, Ore., $18,600. Work involves 1443 cu.yd. excav., 7157 sq.yd. bitulithic, 348 lin. ft. sidewalk, and 1033 lin.ft. curbing, etc.

★**Washington**—State Highway Bd., Olympia, let contract, to S. G. Kinder and W. A. Mowry, Bridgeport, clearing, grading, draining and surfacing 5.3 mi. Sunset Highway near Baird, Douglas Co., cost $43,491; to Genl. Constr. Co., 1324 Elm St., Spokane, 6.1 mi. Sunset Highway from Waterville east, Douglas Co., $69,692, 7.1 mi. Central Highway, Spokane and Lincoln Counties, $81,155, 6.8 mi. Pacific Highway from Kelso north, Cowlitz Co., $171,518; to W. J. Smith & Co., Ritzville, 8 mi. Sunset Highway east from Waterville, Douglas Co., $64,403. Noted May 8.

★**Wash., Walla Walla**—City let contract for 25,000 sq.yd. gravel bitulithic paving, guttering and curbing, to Warren Constr. Co., Journal Bldg., Portland, $1.98 per sq.yd. Total cost, $69,992.

★**Ore., Astoria**—City let contract paving 3.5 mi. Olney Rd. from cemetery dike to city limits, 16 ft. wide, 1½ in. asphaltic concrete on 6 in. concrete, to M. O'Reilly Co., Astoria, $76,639.

Ore., Eugene—City received bids paving 12th Ave., from Clark & Henry, Eugene, $24,590; G. Pyle, Eugene, $25,214.

Ore., North Bend—City received bids paving Porter Hill and Sherman St., from Moon & Co., North Bend, rock asphalt, $62,-982; Scandia Co., 1 course concrete, $51,-865, 2 course concrete, $48,227. Noted Feb. 27.

Ore. Portland—Multnomah Co. Comn. received bids May 22, improving 9500 lin.ft. Derby St., involving 324,603 cu.yd. excav., from Pacific Bridge Co., foot Salmon St., $115,376 plus $342 for concrete pipe and $335 for excav.; Baker Bros., Bd. Trade Bldg., $106,099 minus $532 for concrete pipe, plus $.31 for excav.; Hampshire & Boss, Grants Pass, $118,855 for either kind of pipe, $.35 for excav.

★**Ore., St. Johns**—(Portland P. O.)—Comrs. Multnomah Co. let contract grading and paving New St. Johns Rd., to Baker Bros., Bd. Trade Bldg., Portland, $105,577. Work involves 324,903 cu.yd. mixed and common excav., laying 943 lin.ft. 12-18 in. pipe and 60 overhaul stations.

★**Cal., Chula Vista**—City let contract building 4 mi. road, to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $120,000. Work involves 23,000 sq.ft. cement concrete paving, 544,000 sq.ft. bituminous concrete paving, 5500 sq.ft. cement sidewalks, 11,500 sq.ft. concrete gutters, 4000 lin.ft. cement curbs, etc.

★**Cal., Eureka**—Comrs. Humboldt Co. let contracts, to Elsemore & Jacobs, Eureka, grading 3.85 mi. road between Fernbridge and Ferndale, cost, $12,855; J. Lentell & G. M. Moore, 705 4th St., Eureka, grading 5.4 mi. Lord Ellis Rd. from north fork of Mad River to Low Gap, $22,986.

★**Cal., Fresno**—City let contract grading and paving with bitulithic 16 blocks Platt, Kerckhoff and Balch Aves., to California Road & Street Impvt. Co., Holland Bldg., Fresno. Noted Apr. 24.

Cal., Oakland—W. H. Leinert Co., Oakland, let contract grading, paving, guttering and building sewers in 2200 ft. Longridge Rd., 1500 ft. Rosemount Rd., 200 ft. Verrada Rd., 1200 ft. Alma Ave. and 700 ft. Chatham Rd., 24-32 ft. wide, to Bates & Borland, 12th St. and Bway. About $30,-000. Work involves 11,600 lin.ft. each of concrete curbs, gutters and sidewalks.

★**Cal., Santa Barbara**—City let contract improving Montecito St., to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $49,630. Work involves 152,000 sq.ft. 4 in. concrete pavement with 1½ in. Warrenite surface, 8000 sq.ft. concrete gutters, 8900 lin.ft. combined concrete curb and gutters, culverts, etc.

Que., St. Joseph d'Alma—Municipal Council let contract building macadam road, to J. Girard, St. Joseph d'Alma. About $20,000.

Ont., Cayuga—Halimand Co. let contract building 13 mi. macadam road, to McConnell & Hicklin, 6 Washington Ave., Toronto. About $96,000.

Railways

PROPOSED WORK

South Carolina—Atlantic Coast Line R. R., Wilmington, N. C., plans to build road bed and track, including fill and trestle across Indian Field Creek Swamp, from Harleyville to St. George. Project includes depot and yard trackage. About $140,000. J. E. Willoughby, 8 South 7th St., Wilmington, ch. engr.

Missouri—City of St. Louis plans to lay 12 mi. track on belt line from McKinley St. to Free Bridge. About $75,000. J. A. Hooke, dir. pub. utilities.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Texas**—Toyah Valley Sulphur Co. plans to build 15 mi. railway from Orla to its properties. M. J. Eppley, 800 Hennen Bldg., New Orleans, La., pres. and genl. mgr. Work will be done by day labor.

Excavation and Dredging

PROPOSED WORK

Mich., Three Rivers—Dredging—Fairbanks, Morse & Co., c/o Sheffield Car Dept., soon receives bids for 120,000 yd. muck, sand and gravel dredging for river cutoff, ¼ mi. long, 104 ft. wide at bottom, 4½ ft. average depth of cutting. Fargo Eng. Co., 304 Commonwealth Bldg., Jackson, engrs.

N. D., Grand Forks—Drain—Grand Forks Co. Drainage Bd. plans to build 6 mi. Drain No. 10, Americus Twp. About $25,000. J. Ingram, co. engr.

Cal., Palmdale—Irrigation—Palmdale Irrigation Dist. plans to build irrigation system to include 2 storage reservoirs in Little Rock Creek, each impounding about 7000 acre-ft.; will also build concrete distributing pipe lines if State Irrigation Comn. approves project. About $600,000. B. Cole, Palmdale, engr.

BIDS DESIRED

Wis., Milwaukee—Excavation—Chicago, North Shore & Milwaukee R. R., 221 Grand Ave., receiving bids for excavation work for proposed new interurban terminal station, on 6th and Sycamore Sts. Total cost $100,-000. A. W. Gerber, Edison Bldg., Chicago, archt.

Ia., Burlington—Drainage—Until June 17, by J. F. Weber, aud., Des Moines Co., building drainage channels, involving 125,-077 cu.yd. excav., 1240 lin.ft. 12-in. tile and 1 bulkhead; advertised in this issue.

Ia., Red Oak—Excavation—See "Streets and Roads."

Utah, Springville—Drainage—Until June 7, by J. W. Alleman, secy., Utah Co. D. D. No. 1, trenching and laying of drainage tile, involving 159,250 ft. 8-24 in. vitr. drain tile and 73,210 cu.yd. earth excav. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Wash., Woodland—Drainage—Until June 10, by Diking Impvt. Dist. No. 5, Kelso State Bank Bldg., Kelso, building drainage system in Cowlitz Co., involving 160 acres clearing and 213,235 cu.yd. ditches, canals and dikes. G. J. Poysky, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—Dredging—M. Hurlburt, comr. docks, Pier "A," Battery Pl., received bids May 28 furnishing all labor and material for dredging in West 46th St., North River, Contr. 1614, from F. A. Schomberg, $9680; Auten Eng. & Constr. Co., 29 Bway., $11,600; F. E. Jones, 17 Battery Pl., $11,840. Noted May 22.

Ia., Estherville—See "Streets & Roads."

Mo., Brunswick—Drainage—Garden of Eden D. D., c/o N. C. Field, pres., let contract building ditches to drain 12,000 acres, in Charlton Co., to McWilliams Dredging Co., Chicago. About $280,000.

Industrial Works

PROPOSED WORK

Mass., Chicopee—Torrington Mfg. Co. plans to build brick and timber addition to plant. About $50,000. Architect not selected.

Mass., Greenfield—M. J. Tetreault, Olive St., plans to build 1 story fireproof, sales stable and garage, on Olive St. and City Hill. About $35,000. Architect not selected.

Mass., Lawrence—Davis Fdry. Co., 64 Island St., soon receives bids building 1 story, 100 x 200 ft. brick and concrete addition to foundry, rein.-con. flooring, concrete foundation. About $50,000.

Mass., Northampton—Hampton Co., Easthampton, purchased site here and plans to build new plant. F. C. Johnson, pres. Architect not selected.

R. I., Providence—Page & Page, archts., 87 Weybosset St., soon receive bids building 1 story, 93 x 106 ft. brick and mill construction garage, rein.-con. flooring, concrete foundation, on Pine St., for M. Hall, c/o architect. About $30,000.

R. I., Providence—Z. Zawatsky, Pond and Eddy Sts., plans to build 1-story, 50 x 100 ft., brick addition to service station and garage, rein.-con. flooring, concrete foundation. About $25,000.

R. I., Woonsocket—Brenner Bros., Island Pl., purchased site and plan to build garage and addition to warehouse. About $30,000. Architect not selected.

Conn., Hartford—Case, Lockwood & Brainard Co., 141 Pearl St., plans to build brick and concrete printing plant on Jewel and Ann Sts. About $60,000. Architect not selected.

Have you noted the remarkable increase in the number of bids desired?

The figures tell the story:

Bids desired 1918	
May 2nd issue	91 items
May 9th issue	69 items
May 16th issue	89 items
Bids desired 1919	
May 1st issue	129 items
May 8th issue	100 items
May 15th issue	132 items

These figures concern the number of Proposed Work items which were reported in the Construction News columns of the first three issues of May (1918 and 1919).

The fact that the latter figures greatly outdistance the former, is an indication of the good work of the staff of correspondents in all sections of the country.

After reading these figures don't you think you ought to

"Read Construction News for Profit"

Industrial Works (Continued)

Conn., Norwalk—Pioneer Braid Co., 251 West 90th St., New York City, soon lets contract building 2 story, 56 x 202 ft., brick and steel addition to factory, concrete foundation, here. About $60,000.

N. Y., Binghamton—Hires Condensed Milk Co., Port Dickinson, having plans prepared for two 1 story, 50 x 150 ft., concrete factories. Cost between $80,000 and $100,000. Address J. G. Brownlon, c/o Chamber of Commerce, Binghamton.

N. Y., Binghamton—Larrabee-Deyo Motor Truck Co., 23 Wasmington St., having plans prepared for extension to factory. About $200,000. E. M. Hanrahan, mgr.

N. Y., Brooklyn—M. Reilly and T. Latimer, 175 Pacific St., soon lets contract building 1 story, 60 x 100 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Pacific St. near Court St. About $35,000. L. A. Ebling and H. Maginson, 52 Vanderbilt Ave., New York City, archts.

N. Y., Carthage—Wilna Machine Co., 111 North Mechanic St., plans to build 2-story, 50 x 80 ft., brick and concrete factory. Cost between $25,000 and $30,000. Address W. G. Richardson, Carthage.

N. Y., Jamestown—Seabury Mfg. Co. preparing plans for 3-story 45 x 75 ft. mill construction addition to factory, concrete foundation, on Steele St. About $25,000.

N. Y., Johnson City—Cook, Holland & Russel soon let contract building concrete factory on Grand Ave. About $40,000.

N. Y., New York—C. H. Allen, 138 William St., soon lets contract building 7-story, brick and steel storage house, rein.-con. flooring, concrete foundation, at 119 Fulton St. About $75,000. Montgomery & Riggs, 105 West 40th St., archts. Noted May 1.

N. Y., New York—H. O. Cnapman, archt., 334 5th Ave., receives bids about June 10, building 7 story, 130 x 200 ft. brick and steel factory, rein.-con. flooring, concrete foundation, at 543-545 West 43rd St., for Park & Tilford, 529 West 42nd St. Noted May 15.

N. Y., New York—J. Eichler Brewing Co., 3582 3rd Ave., had plans prepared by A. G Koenig, archt. and engr., 405 Lexington Ave., altering 3 story, 62 x 84 ft. brick, rein.-con. and steel ice plant, rein.-con. flooring on 169th St. and 3rd Ave. About $37,000.

N. Y., New York—Greenwich Assn., Inc., c/o Ames & Co., 26 West 31st St., having plans prepared by G. and E. Blum, archts., 505 5th Ave., for 1-story, 125 x 150 ft., brick and terra cotta garage, brick foundation, on Grand and Tompkins Sts.

N. Y., New York—Hillman Co., 567 3rd Ave., having plans prepared by M. J. Harrison, archt., World Bldg., for 1-story, 99 x 125 ft., brick and steel garage, rein.-con. flooring, brick foundation, at 237-245 East 41st St. About $25,000.

N. Y., New York—J. W. O'Connor, archt., 3 West 29th St., receives bids about June 17, building two 9 story brick and steel warehouses, rein.-con. flooring, concrete foundation, at 29-31 South William St., for Terminal Warehouse Co., 17 South William St. About $100,000. J. H. Lynch, pres.

N. Y., New York—See "Buildings."

N. Y., New York—Springfield Tire Co., 200 West 57th St., having plans prepared by E. Necarsulmer, archt., 507 5th Ave., for 4-story, 100 x 115 ft., warehouse, and 1-story, 60 x 100 ft. service station, brick and steel, rein.-con. flooring, concrete foundation, on 10th Ave. and 54th St. About $100,000.

N. Y., New York—F. E. Vitola, archt. and engr., 56 West 45th St., soon lets contract building 5 story, 100 x 129 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 541-551 West Bway, for Cuneo & Posta, 73 Washington Sq. About $100,000. Noted Apr. 24.

N. Y., Phila.—F. X. Baumert Co., Antwerp, having plans prepared for brick and concrete factory here. About $30,000.

N. Y., Rochester—Powers Film Products, Inc., purchased property in blocks bounded by Dewey, Ridgeway and Knickerbocker Aves. and Primrose St., and plans to build additional plants. Cost including equipment, $500,000. P. A. Powers, pres.

N. J., Newark—Patton Paint Co., Chester Ave., plans to build 2-story, 61.6 x 121.6 ft., rein.-con. factory. About $65,000. J. H. & W. Ely, Farmers Bldg., archts. and engrs.

N. J., Newark—L. E. Waterman Co., 191 Bway., New York City, having plans prepared by Helmle & Corbett, archts. and engrs., 190 Montague St., Brooklyn, N. Y., for 6 story, 260 x 475 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Peddle St. near Johnson Ave., here.

Pa., Scranton—Lockwood, Greene & Co., archts., 101 Park Ave., New York City, soon let contract building 3-story, 72 x 140 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Glenn and Meyler Sts., for Scranton Lace Co. About $80,000. Noted May 15.

W. Va., Fairmont—West Virgina Metal Product Corp., incorporated with $2,500,000 capital stock, plans to build large structural steel mill.

W. Va., Parkersburg—Donovan Boiler Wks., plans to build 1 story, 120 x 130 ft. steel boiler works, foundry and shop. About $60,000.

Ga., Atlanta—Adair & McCarty Bros., Walton Bldg., having plans prepared by Lockwood, Greene & Co., engrs., Healey Bldg., for improvements to fertilizer plant, including new acidulating unit. About $25,000.

O., Cleveland—See "Buildings."

O., Cleveland—Columbia Steel & Shafting Co., Engineers' Bldg., plans to build 1-story, 147 x 157 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, on East 55th St., near St. Clair Ave. About $150,000.

O., Columbus—Reibel & Sons, archts., New 1st Natl. Bank Bldg., soon receive bids building 3-story, 46 x 110 ft., brick bakery on North High St., for Clark Baking Co., 1435 North High St. About $85,000.

O., Dayton—Air City Garage & Tire Co., 16 South Jefferson St., plans to build 2 story, 80 x 132 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation, on 5th and Perry Sts. About $100,000. Peters, Herman & Brown, 1129 Reibold Bldg., archts.

O., Dayton—Union Storage Co., East State St., plans to build 5 story, 78 x 100 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, on East State St. About $150,000. Frank Hill-Smith, Inc., East 3rd St., archts.

Ind., Ft. Wayne—Thieme Bros., Park Ave., having plans prepared building 90 x 157 ft. brick, steel and rein.-con. mill on Runyan Ave. About $150,000.

Mich., Detroit—Liberty Motor Car Co., foot Lycaste St., plans to construct plant on Charleroi Ave., to include 1-story, 120 x 600 ft. main assembly building, 1 story, 60 x 300 ft., experimental and stock building, 2-story, 50 x 200 ft. administration building, and 40 x 60 ft. heating plant, all rein.-con., brick and steel, with exception of administration building. Austin Co., 1954 Penobscot Bldg., engrs.

Ill., Aurora—Aurora Beacon News having plans prepared by Zimmerman, Saxe & Zimmerman, archts., 64 East Van Buren St., Chicago, for 3 story, 60 x 90 ft. rein.-con. and brick plant, rein.-con. flooring, concrete foundation, on Highland Ave. About $100,000.

Ill., Chicago—Gill Mfg. Co., 351 West 59th St., plans to build large manufacturing plant on South Chicago Ave. and 83rd St First unit to cost about $100,000. Architect not selected.

Wis., Ft. Atkinson—Creamery Package Co. soon lets contract building 5 story, 90 x 207 ft. brick and concrete factory. Cost between $150,000 and $200,000. M. Tullgren & Sons, 1st Natl. Bank Bldg., Milwaukee, archts.

Wis., Milwaukee—Ambrosia Chocolate Co., 331-35 5th St., plans to build 2-story addition to factory. About $30,000. C. F. Ringer & Son, University Bldg., archts.

Wis., Milwaukee—Beals & Torrey Shoe Co., 85-9 Buffalo St., having plans prepared by H. J. Esser, archt., 401 Camp Bldg., for 4 story, 50 x 200 ft., brick and mill construction factory, with 40 x 60 ft. wing. About $100,000.

Wis., Milwaukee—Layton Park Dairy, 1076 25th Ave., soon lets contract building 2 story, 40 x 50 ft. rein.-con. and brick, dairy rein.-con. flooring, concrete foundation. About $25,000. H. Voelz, 86 Michigan St., archt.

Wis., Milwaukee—Lincoln Motor Car Co., 820 3rd St., soon lets contract building 2 story, 60 x 108 ft. garage and service station, on 3rd and Clark Sts. About $40,000. H. J. Esser, Camp Bldg., archt.

Wis., Milwaukee—J. Pritzlaff Hardware Co., 33-57 West Water St., soon receives bids building 4 story, 40 x 60 ft. and 60 x 70 ft. brick and mill construction addition to factory, brick foundation. About $50,000. Klug & Smith, Mack Blk., engrs.

Wis., Sheboygan—Milo Product Co., c/o O. Loebel, plans to build 2 story, 50 x 80 ft. brick and rein.-con. factory, brick foundation, on Pennsylvania Ave. About $25,000.

Wis., Sheboygan—Northfield Co., 18th St. and Martin Ave., plans to build 3 story, 60 x 90 ft. brick, rein.-con. and steel factory, brick foundation on Martin St. About $70,000. Address E. W. Schultz, 1735 North 7th St.

Wis., Sheboygan Falls—Richardson Bros. plan to build 2-story, 60 x 85 ft., brick, rein.-con. and steel mill, on Main St. Cost between $50,000 and $60,000.

S. D., Sioux Falls—Brooks Tire & Repair Co. soon lets contract building 2-story, 100 x 106 ft. brick and rein.-con. garage. J. Schwarz, Paulto Blk., archt.

S. D., Sioux Falls—H. A. Homan, 321 North Main St., plans to build 2-story, 110 x 150 ft. garage, on 9th St.

N. D., Mandan—Western Auto Co. having plans prepared building 1-story brick garage. About $40,000. L. F. Smith, mgr.

Wyo., Pine Bluffs—See "Waterworks."

Mont., Billings—Montana Tractor Co., Lewistown, plans to build warehouse here. About $65,000. A. Bright, Billings, engr.

Mo., St. Louis—Bd. Pub. Serv. soon receives bids building one 200 x 400 ft. and one 120 x 200 ft., concrete warehouses and 11 concrete freight platforms on municipal dock. Project includes installation of cranes and other conveying machinery. About $300,000. J. A. Hooke, city engr.

Mo., St. Louis—Bd. Estimate and Apportionment considering plan to issue $100,000 bonds to build garage. L. R. Bowen, city engr.

Mo., St. Louis—Universal Motor Truck & Tractor Engine Co., Syndicate Trust Bldg., having plans prepared by D. T. Timberlake, c/o owner, for group of 1 story rein.-con. factory buildings, concrete flooring, at Suburban Garden. Cost to exceed $50,000.

Okla., Okmulgee—J. H. Rebold and associates soon receive bids building 5-story, 75 x 100 ft. brick, terra-cotta and stone, printing and office building, rein.-con. flooring, concrete foundation, on 5th and Seminole Sts. About $200,000. H. La Pierre, Parkerson Hotel, archt.

Colo., Grover—See "Waterworks."

Ariz., Phoenix—Arizona Packing Co. having plans prepared for plant on Temple Rd., 5 mi. east of here, to consist of 4 story, 200 x 250 ft. rein.-con. building and number of smaller buildings. About $500,000. F. Tribolet, secy.

Ore., Portland—Hartman & Stein plan to build 1-story, 78 x 100 ft., brick garage, on 5th and Everett Sts. MacNaughton & Raymond, Corbett Bldg., archts.

Ore., St. Johns—Portland Dock Comn. plans to build oil storage facilities at St. Johns Terminal. Cost between $50,000 and $60,000. J. B. Hegardt, engr.

Cal., Avalon—City election soon to vote on $88,000 bonds to build combined electric light and waterworks plant and $55,000 bonds for gas plant, on Catalina Island here.

Cal., Benicia—Kullman, Salz & Co., 603 Wells-Fargo Bldg., San Francisco, having plans prepared by J. A. Wilcox, engr., c/o owner, for 3-story, 103 x 154 ft., brick tannery, concrete foundation. About $60,000.

Cal., Fresno—San Joaquin Baking Co., San Benito and P Sts., having plans prepared by Glass & Butmer, archts., Cory Bldg., for 1 and 2 story, 125 x 300 ft., rein.-con. and brick bakery, concrete foundation on Los Angeles St. About $60,000. Noted May 22.

Cal., Huntington Beach—City having plans prepared by Olmsted & Gillelen, engrs., Hollingsworth Bldg., Los Angeles, for rebuilding gas plant here. Election will be held soon to vote on $40,000 bonds for project.

Industrial Works (Continued)

Cal., Imperial—J. W. Reed having plans prepared by A. F. Rosenheim, archt., 1118 Van Nuys Bldg., **Los Angeles, for 1 story,** 100 x 100 ft., packing house, concrete foundation.

Cal., Lodi—Earl Fruit Co. plans to build 1-story, 50 x 155 ft. addition to packing house. Address G. C. Sarl, 2914 McClure St., Oakland.

Cal., Los Angeles—C. H. Matson, harbor traffic mgr., recommended that City Harbor Comn. build cotton handling plant to include high density compress at Los Angeles Harbor (San Pedro). About $80,000.

Cal., Oakland—Parr Terminal Co., Oakland Mole, having plans prepared by W. Ball, engr., c/o owner, for 2-story, 100 x 545 ft. rein.-con. and timber warehouse on Key Route Basin. About $100,000.

Cal., Pasadena—Model Grocery Co., having plans prepared by J. J. Blick, archt., 414 Dodworth Bldg., for 3-story, 75 x 208 ft., rein.-con. and brick grocery and loft building, concrete foundation, on East Colorado St. About $50,000.

Que., Sherbrooke—J. Kayser & Co., Frontenac St., purchased site having 464 ft. frontage on Frontenac St., and plans to build rein.-con. factory.

Ont., Toronto—See "Buildings."

Ont., Toronto—I. M. Prentiss, 8 Rideout Ave., soon lets contract building concrete, stone and steel factory. About $60,000.

Ont., Toronto—W. Wrigley, Jr., Carlaw Ave., having plans prepared by B. H. Prack, archt., Lumsden Bldg., for brick and steel addition to factory. About $60,000.

BIDS DESIRED

Conn., Waterbury—Until June 6, by F. A. Webster, archt. and engr., 193 Homer St., building 2 story, 100 x 120 ft., brick fireproof garage and service station, rein.-con. flooring, concrete foundation, on North Main and North Willow Sts., for M. A. Doolittle, Watertown Ave. About $60,000. Noted May 8.

N. Y., New York—Until June 6, by Starrett & Van Vleck, archts. and engrs., 8 West 40th St., building 4-story rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, at 1996-2010 Park Ave., for R. T. Rane, Jr., Chicago. About $175,000. Noted May 15.

O., Cleveland—G. S. Rider Co., archts., 601 Century Bldg., receiving bids building 2-story, 130 x 150 ft., rein.-con., steel and brick warehouse, on East 39th St. and Superior Ave., for J. M. & L. A. Osborn Co., Superior Viaduct. About $300,000.

Mich., Marquette—Until June 16, by city, building 40 x 97 ft. concrete and brick hydroelectric power house, tail-race excav. in earth and rock; rein.-con. surge tank, 30 ft. diameter, 60 ft. high; concrete foundation with timber saddles for woodstave pipe line, 90 in. inside diameter, 1800 ft. long and 78 in. inside diameter, 285 ft. long; advertised in this issue.

Ill., Chicago—A. B. Coffin, archt., 39 West Adams St., receiving bids for 4-story, 90 x 166 ft., rein.-con. factory, rein.-con. flooring, concrete foundation, on Van Buren St. and Cicero Ave., for Balden Mfg. Co., 2300 South Western Ave. About $150,000.

Wis., Milwaukee—Until June 15, by C. H. Tharinger, archt., building 4-story, 120 x 130 ft., brick and mill construction factory, for Tharinger Bros. Macaroni Co., 1466 Holton St. About $125,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. H., Nashua**—Nashua Mfg. Co. let contract building 7-story, 122 x 560 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, to Aberthaw Constr. Co., 27 School St., Boston. About $750,000.

★**Mass., Attleboro**—F. Mossberg Co., c/o W. R. Walker & Son, archts., 17 Custom House St., Providence, R. I., let contract building 1-story, 60 x 140 ft. brick and timber machine shop, rein.-con. flooring, concrete foundation, to E. O. Dexter, Main St. About $30,000. Noted May 22.

★**Mass., Lowell**—Hamilton Mfg Co., Jackson St., let contract building 4 story, 135 x 388 ft. brick and steel extension to mill, concrete foundation, to J. J. Prindeville Co., South Framingham. About $250,000.

★**Mass., Pittsfield**—Victory Textile Co., 4th St., let contract building 3 story, 80 x 280 ft. brick and timber factory, 1st floor rein.-con., concrete foundation, on West Housatonic St., to J. R. Hampson & Co., c/o owner. About $80,000. Noted Apr. 24.

★**R. I., Pawtucket**—McKenzie & McKay Co., Prospect St., let contract building 3-story, 60 x 160 ft. brick and mill construction mill, concrete foundation, to F. G. Rowley Co., Inc., 200 Central Ave. About $45,000.

★**R. I., Providence**—F. A. Decker Co., 390 Smith St., let contract building 1-story, 52 x 72 ft. service station and 2-story, 70 x 90 ft. garage, brick and timber, rein.-con. flooring, concrete foundation, on Smith and Orm Sts., to B. F. Smith Co., 22 Mason St., Pawtucket. About $40,000. Noted Apr. 10.

★**R. I., Providence**—Genl. Fire Extinguisher Co., West Exchange St., let contract building 3-story, 70 x 120 ft. pipe shop, and 2-story, 60 x 70 ft. addition to pipe bending plant, steel and brick, concrete foundation, to C. I. Bigney Constr. Co., 898 Westminster St. About $100,000.

★**R. I., Providence**—E. A. Smith Co., Chapel and Snow Sts., let contract building 1-story, 90 x 95 ft. brick and steel garage, service station and sales room, rein.-con. flooring, concrete foundation, to E. H. Bigney, 17 Custom House St. About $27,500.

★**Conn., Bridgeport**—E. M. Jennings, 277 Fairfield Ave., let contract building 5 story, 110 x 170 ft. brick and terra cotta auto sales, storeroom and garage, rein.-con. flooring, concrete foundation, on Harrison St., to T. J. Pardy Constr. Co., 15 Fairfield Ave. About $175,000.

★**Conn., Waterbury**—Amer. Brass Co., Grand and Meadow Sts., let contract building 1 story, brick and concrete addition to power house, rein.-con. flooring, concrete foundation, on Washington Ave., to H. R. Kent Co., 141 Bway., New York City. About $60,000.

★**Conn., Waterbury**—G. B. Wuestefeld Co., 192 York St., New Haven, let contract building 1 story, 70 x 142 ft., brick, concrete and steel garage, sales room and service station, rein.-con. flooring, concrete foundation, on South Main St., here, to Sullivan & McKeown, 843 Dixwell Ave., New Haven. About $40,000.

★**N. Y., Brooklyn**—Advance Rubber Co., 1717 8th Ave., will build 1 story, 20 x 130 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Gardner and Flushing Aves. About $75,000. Work will be done by day labor.

★**N. Y., Brooklyn**—F. Feldman, 321 Wyona St., will rebuild 1-story, 90 x 105 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Bergen St. and Eastern Parkway. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—H. Kohnstan, 537 Columbia St., let contract building 1-story, 60 x 100 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Columbia St., to Post & McCord, 101 Park Ave., New York City. About $30,000.

★**N. Y., Brooklyn**—M. Stinner, 217 Havemeyer St., will build 1-story, 75 x 100 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Wallabout St. and Marcy Ave. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—C. Wisson, 100 Bradford St., will build 1-story, 73 x 100 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Sumpter St. and Stone Ave. About $25,000. Work will be done by day labor.

★**N. Y., Falconer**—Jamestown Mantel Co., Jamestown, let contract building 3-story, 70 x 240 ft., mill construction addition to factory, here, concrete foundation, to Jamestown Constr. Co., 60 River St., Jamestown. About $30,000.

★**N. Y., Jamestown**—Jamestown Tool & Die Wks. let contract building 1-story, 80 x 185 ft., mill construction machine shop, concrete foundation, on Blackstone St., to Warren Constr. Co., Gokey Bldg. About $35,000.

★**N. Y., Long Island City**—L. Gold, 44 Court St., Brooklyn, will build 2-story, 100 x 150 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Washington and 6th Aves., here. Work will be done by day labor.

★**N. Y., Long Island City**—See "Buildings."

★**N. Y., Long Island City**—J. Simons Co., 350 Bway., New York City, let contract building rein.-con. and brick blacksmith shop and garage, rein.-con. flooring, concrete foundation, on Nelson Ave., to Westinghouse, Church & Kerr, 37 Wall St., New York City. About $100,000. Cost plus percentage basis.

★**N. Y., New York**—Factory Constr. Co., 44 Court St., Brooklyn, will build 3 story, 95 x 175 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 323 West 90th St., here. About $100,000. Work will be done by day labor.

★**N. Y., New York**—Fifteenth St. Garage Corp., 412 5th Ave., let contract building 2 story, 100 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 534 West 39th St., to G. A. Carpenter, 484 West 14th St. About $75,000. Noted May 22.

★**N. Y., New York**—W. Fox Film Corp., 126 West 46th St., will build 3 story, 100 x 190 ft. brick, steel and rein.-con. film studio, rein.-con. flooring, concrete foundation, on 10th Ave. between 55th and 56th Sts. About $1,000,000. Work will be done by day labor under supervision of A. Allen, 128 Bway.

★**N. Y., New York**—Greenwich Assn Inc., c/o Ames & Co., 26 West 31st St., will build 1 story, 125 x 150 ft. brick and steel garage, on Grand and Tompkins Sts. Work will be done by day labor.

★**N. Y., New York**—F. W. Schwiers & Sons, 52 Vanderbilt Ave., will build 3 story, 100 x 100 ft. brick and steel warehouse, rein.-con. flooring, concrete foundation, on 11th Ave. and 48th St. About $100,000. Work will be done by day labor, under supervision of R. T. Lyons, Inc., archts., 52 Vanderbilt Ave.

★**N. Y., New York**—Stalwart Realty Co., 26 West 31st St., let contract building 2 story, 100 x 171 ft. brick, rein.-con. and steel garage, rein.-con. flooring, concrete foundation, on 110th St. and Lenox Ave., to Westinghouse, Church & Kerr, 37 Wall St. About $200,000. Cost plus percentage basis. Noted Apr. 10.

★**N. Y., Watertown**—Beebe's Island Power Corp. will build 7000 hp. electric generating plant, here. Cost between $30,000 and $50,000. Work will be done by day labor. Excavation under way.

★**N. J., Hoboken**—L. Newmann & Co., Willow Ave., let contract building 6 story, 50 x 65 x 140 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Ferry St. and Willow Ave., to Rheinstein & Haas, 21 East 40th St., New York City. About $200,000.

★**Md., Baltimore**—M. & S. Shoe Co., 500 East Lombard St., let contract building 3 story, 75 x 180 ft., rein.-con. and brick factory, brick and concrete foundation, on Oliver St. near Greenmount Ave., to Consolidated Eng. Co., 243 Calvert Bldg. About $75,000. Noted May 22.

★**N. C., Gastonia**—Dixon Mills, Inc., let contract building 1 story timber cotton mill, brick and concrete foundation, to J. D. Groudy, Charlotte. About $400,000.

★**O., Cleveland**—Christian, Schwarzenberg & Gaede, engrs., 1900 Euclid Ave., let contract building 4-story, 90 x 100 ft., rein.-con., steel and brick addition to factory, for Grabler Mfg. Co., 6565 Bway Ave., to S. W. Emerson Co., 1900 Euclid Ave. About $100,000. Noted May 1.

★**O., Cleveland**—Guide Motor Lamp Co., 11400 Madison Ave., let contract building 2-story, 60 x 180 ft., steel and brick factory and office, at 1500 West Madison Ave., to Minnick & Gibbons, 5309 Prospect Ave. About $40,000. Noted May 29.

★**O., Cleveland**—Jordan Motor Co., 1070 East 152nd St., let contract buildng 1 story, 40 x 60 ft., concrete, steel and brick power plant, to Hunkin-Conkey Co., 601 Century Bldg. About $40,000.

★**O., Cleveland**—Jordan Motor Co., 1070 East 152nd St., let contracts constructing 2 story, 30 x 90 ft. testing building and 2 story, 100 x 300 ft. assembly building, concrete, steel and brick, rein.-con. flooring concrete foundation, to Hunkin-Conkey Co., 601 Century Bldg., $60,000 and $50,000 respectively.

Industrial Works (Continued)

★**O., Cleveland**—Leonard Electric Mfg. Co., 433 Champlain Ave., let contract building 2 story, 86 x 115 ft., concrete, steel and brick factory, at 3907 Perkins Ave., to H. G. Slatmeyer & Son Co., 233 West Lakeside Ave. About $50,000. Noted May 22.

★**O., Cleveland**—Peerless Motor Car Co., East 93rd St. and Quincy Ave., let contract building 3 story, 40 x 80 ft., rein.-con., steel and brick addition to factory, to Masters & Mullen, 602 Electric Bldg. About $60,000. Noted May 15.

★**O., Columbus**—Bradford Shoe Co., 236 Neilston St., let contract building 4-story, 50 x 70 ft., mill construction factory, on Neilston St., to E. H. Latham, Grove St. About $50,000.

★**O., Columbus**—Henderson Tire & Rubber Co., Bucyrus, let contract building 2-story, 100 x 300 ft., rein.-con. rubber factory on Goodale St., here, to Moor Bros., 1358 Franklin Ave. About $100,000.

★**O., Dayton**—Dayton Fan & Motor Co., Ludlow St., let contract building 5 story, 82 x 150 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Monument and Meigs Sts., to Frank-Hill-Smith, Inc., East 3rd St. About $150,000.

★**Ind., Evansville**—Graham Bros., Citizens Bank Bldg., will build 1-story, 92 x 242 ft. brick mill. About $50,000. Work will be done by day labor.

★**Ill., Chicago**—R. H. Comey Co., 2440 Washburne Ave., let contract building 2 and 6 story, 125 x 200 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, at 2455 West 12th St., to J. L. Carnegie & Sons, 189 West Madison St. About $80,000.

★**Ill., Chicago**—A. I. Jordan, c/o J. A. Armstrong, archt., 11 South La Salle St., will build 7-story, 167 x 287 ft. mill construction warehouse, concrete foundation, on Ogden Ave. and Rockwell St. About $300,000. Work will be done by day labor. Noted May 8.

★**Ill., Chicago**—Mundie & Jensen, archts., 39 South La Salle St., let contract building 3 story, 67 x 194 ft., 2 story, 194 x 414 ft. and 1 story 81 x 108 ft. brick and timber piano factory, rein.-con. flooring, concrete foundation on Kedzie Ave. and 48th Pl., to R. F. Wilson & Co., 154 West Randolph St., for Melville Clark Piano Co., 25 East Jackson St. About $400,000. Noted Apr. 3.

★**Ill., Chicago**—Walker & Meyer, 1230 North Clark St., let contract building 6 story, 50 x 75 ft. rein.-con. warehouse, rein.-con. flooring, concrete foundation, to Leafgreen Constr. Co., 21 East Van Buren St. About $50,000.

★**Wis., Ashland**—C. Reiss Coal Co., c/o P. Reiss, 1225 North 7th St., Sheboygan, let contract building 2 story, 60 x 250 ft brick, rein.-con. and steel warehouse and coal shed, rein.-con. flooring, brick foundation, on Elm St., to Peppard & Fulton, Minneapolis, Minn. About $92,000.

★**Wis., Milwaukee**—Benfeldt Ice Cream Co., 2302 Clybourn St., let contract building 2-story, 40 x 80 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, to Raulf Co., 428 Grand Ave. About $40,000.

★**Wis., Milwaukee** — Hackendahl & Schmidt, 16th St. and St. Paul Ave., let contract building 1-story, 80 x 100 ft., brick and steel plant, concrete foundation, to Kroening Constr. Co., Majestic Bldg.

★**Wis., Milwaukee**—Mann Carbonator Co., 250 West Water St., let contract building 2-story, 60 x 100 ft. rein.-con. and brick factory, on 22nd and Clybourn Sts., to Foster Constr. Co., Caswell Blk.

★**Wis., Milwaukee**—Milwaukee Corrugating Co., 36th and Burnham Sts., let contract building 2 story, 125 x 240 ft. brick and steel factory, concrete foundation, to Klug & Smith, Mack Blk. About $150,000.

★**Wis., Milwaukee**—Quality Biscuit Co., 696 South Pierce St., let contract building 2-story, 56 x 130 ft., brick and mill construction addition to warehouse, to H. Schmitt & Son, 422 East North Ave. About $50,000.

★**Wis., Milwaukee**—United Storage Warehouse, 239 East Water St., let contract building 4-story, 60 x 150 ft., rein.-con. and brick warehouse, to S. M. Seisel, 1st Natl. Bank Bldg. About $100,000.

★**Minn., Minneapolis**—Gurley Candy Co., 56 Western Ave., let contract building 4 story, 50 x 64 x 132 ft., concrete and brick factory at 900 North 3rd St., to J. Leck Co., 316 South 7th St. About $60,000.

★**Ark., Ft. Smith**—W. J. Echols Co. let contract building 4 story, 120 x 130 ft. mill construction warehouse, to T. T. Riddick, Ft. Smith. About $64,000.

★**Cal., Santa Paula**—Limoneira Co. will build 1 and 2 story, hollow tile and concrete packing house, concrete foundation. About $150,000. Work will be done by day labor under supervision of Allison & Allison, 1405 Hibernian Bldg., Los Angeles, architects. Noted May 1.

★**Ont., Welland**—Imperial Oil Co., 181 Brock St., Sarnia, let contract building oil plant, to Schutz Bros., 35 Albion St., Brantford. About $40,000. Noted May 22.

Buildings

PROPOSED WORK

Mass., Amherst—Library—Massachusetts Agricultural College plans to build library on campus. About $100,000. Architect not selected.

Mass., Chicopee—Church—Church of the Assumption purchased site on Chapman and Springfield Sts. and plans to build brick church. About $50,000.

Mass., Chicopee—Church and School—St. Joachim Church Society plans to build church and school, on East Main, Maple and Belcher Sts. About $150,000. Architect not selected.

Mass., Easthampton—Bank—Hutchins & French, archts., 6 Beacon St., Boston, soon receive bids for extensive alterations in interior and building new marble exterior to 3 story, for Easthampton Savings Bank, 139 Main St. About $60,000.

Mass., Easthampton — Housing — West Boylston Mfg. Co., Hampton Mills, plans to build forty 2-story timber workmen's houses. About $150,000. G. A. Cook, secy.

Mass., Holyoke—Church—Perpetual Help Church, Prospect St., plans to build brick church on Chestnut and Hampshire Sts. About $100,000. Architect not selected.

Mass., Holyoke—Parish—St. Paul's Episcopal congregation, Appleton St., plans to build brick parish house. About $50,000. Architect not selected.

Mass., Holyoke—Theatre—C. W. Rackliffe, 257 Appleton St., and G. Hammond, plan to build fireproof playhouse on Chestnut and Appleton Sts. About $200,000. Architect not selected.

Mass., Holyoke—Y. M. C. A., 367 High St., plans to erect building on Maple and Essex Sts. About $125,000. Architect not selected.

Mass., Millers Falls—School—Montague Twp. plans to build 2-story, 6-room school here. About $60,000. Architect not selected.

Mass., Northampton — Colleges — Smith College, College Hall, plans to expend $700,000 to erect college buildings on campus. W. A. Neilson, pres. Architect not selected.

Mass., Northampton — Home—Dickinson Hospital, North Elm St., plans to build nurses' home. About $100,000. Architect not selected.

Mass., Pittsfield—School—Bd. Educ. plans to build school on Wahconah St., in Pontoosuc Dist. About $50,000. Architect not selected.

Mass., Springfield—Hotel—Clinton Hall Hotel Co., 108 Main St., plans to build large brick and steel addition to hotel. About $75,000. Architect not selected.

Mass., Springfield—Theatre—D. O. Gilmore, 414 Main St., plans to build new brick and concrete theatre, rein.-con. flooring, concrete foundation, to replace present Gilmore Theatre, on Main and Pynchon Sts. About $200,000. Architect not selected.

Mass., Taunton—Theatre—W. R. Walker & Son., archts., 17 Custom House St., Providence, R. I., soon receive bids altering Park Theatre on Court St., for Donovan Amusement Co., 24 Court St. Plans include new marble front, tile entrance, complete interior, etc. About $50,000.

Mass., Westfield—Hospital—Bd. Trustees Noble Hospital, West Silver St., plan to alter and build addition to hospital. About $50,000. Architect not selected.

Mass., Worcester—Chapel—Holy Cross College, College Park, plans to build memorial chapel on campus. About $150,000. J. J. Carlin, pres. Architect not selected.

R. I., Central Falls (Pawtucket P. O.)—Convent—Sisters of Notre Dame, Broad St., soon let contract building 3 story, 45 x 65 ft. brick, concrete foundation. About $50,000. W. F. Fontaine, 285 Main St., Woonsocket, archt.

R. I., Howard—Prison—State Penal & Charitable Comn., State House, Providence, having plans prepared by F. P. Hall, archt., 807 Union Trust Bldg., Providence, for new prison here. About $370,000.

Conn., Bridgeport — Bank — West Side Bank, 1418 State St., having plans prepared by L. Asheim, archt., 211 State St., for brick and steel, concrete foundation, on State St. About $100,000. W. P. Kirk, pres. Noted Jan. 23.

Conn., Bridgeport—Lodge, etc.—Sons of St. George Society, 176 Fairfield Ave., receives bids about June 20, building 2 story, brick and steel lodge and club house, rein.-con. flooring, concrete foundation, on Stratford Ave. About $60,000. E. G. Southey, 983 Broad St., archt. Noted Dec. 26.

Conn., Bristol—Business—M. P. Tirello, 5 Meadow St., purchased site on Park and Divinity Sts., and plans to build 3-story. About $50,000. D. F. Crowley, 192 Main St., engr.

Conn., Bristol—Church — St. Cassimer Church Society, West St., plans to build new brick church. About $100,000. Architect not selected.

Conn., Glastonbury—Bank—Glastonbury Bank & Trust Co., 36 Main St., purchased site on Main and Wells Sts. and plans to build bank. About $50,000. Architect not selected.

Conn., Groton—Infirmary—Odd Fellows Home of Connecticut, Groton, plans to build new infirmary at home here. About $75,000. Architect not selected.

Conn., Hartford — Conservatory—Hartford School of Music, 91 Elm St., purchased site on Collins and May Sts. and plans to build conservatory. About $60,000. H. Cheney, pres.

Conn., Hartford—Office—Hartford Fire Insurance Co., 125 Trumbull St., purchased site on Asylum St. and plans to build office. About $1,000,000.

Conn., Hartford—Hotel—New Hotel, Inc., 226 Kenyon St., purchased site on Trumbull St. and plans to build large hotel. About $1,000,000. C. E. Whitney, pres. Architect not selected.

Conn., New Britain—Hotel—Hotel Beloin, 91 Church St., plans to build extension to hotel, to provide about 30 new rooms and large banquet hall. About $50,000. Address F. Beloin. Architect not selected.

Conn., New Haven—Hospital—New Haven Hospital, 330 Cedar St., plans to erect children's building, nurses' building, service building and private room pavilion, on Cedar St. About $1,000,000. W. H. Carmalt, 261 St. Ronan St., chn. Architect not selected.

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Buildings (Continued)

Conn., South Manchester—Store, etc.—E. J. Holl, Cheney Blk., plans to construct 1-story, 60 x 147 ft. store building, on Main and Pearl Sts., 2 story, 46 x 100 ft. garage in rear and 2 story, 37 x 90 ft. addition to building on Main St., brick and concrete, rein.-con. flooring, concrete foundation. E. A. Sellew, 756 Main St., archt.

Conn., Southington — Church—Methodist Episcopal Church Society, 20 Vermont Terrace, plans to build church. About $75,000. Architect not selected.

Conn., Waterbury—Home—City appropriated $50,000 bonds to build children's home. W. H. Sandland, mayor. Architect not selected.

N. Y., Binghamton—Church—St. Johns congregation, Vestal Ave. and Livingston St., having plans prepared by C. Lacey, archt., Binghamton, for new church. Cost between $75,000 and $150,000.

N. Y., Brooklyn—Hospital—New Zion Hospital, 2140 Cropsey Ave., Bensonhurst, had plans prepared by Shampan & Shampan, archts., 50 Court St., for 4 story, 48 x 135 ft., brick and steel, concrete foundation, on 46th St. and 17th Ave. About $250,000. L. E. Greenfield, pres.

N. Y., Brooklyn — Theatre — Avondale Bldg. Corp., c/o Shampan & Shampan, archts., 50 Court St., had plans prepared for 90 x 120 ft. brick and steel, brick foundation, (2500 seating capacity), on Kings Highway, Coney Island Ave. and East 12th St. About $250,000.

N. Y., Dundee—Library—Dundee Free Library had plans prepared by McCord & Ives, archts., Rochester, for 28 x 48 ft. brick and hollow tile inlaid with concrete filling. Cost between $70,000 and $80,000. L. B. Earnest, chn.

N. Y., Endicott—Business—H. E. Sayler having plans prepared for 5 story, 50 x 100 ft. brick, on Main St. and Washington Ave. About $60,000.

N. Y., Herkimer—Theatre—R. Earl, C. Meyer and C. T. Gloo soon receive bids building 60 x 120 ft., brick and concrete, on Main and Green Sts. About $75,000.

N. Y., Johnson City—School—City election June 17, to vote on $210,000 bonds to build 2 story, brick, on St. Charles and Elizabeth Sts. Address F. M. Smith, supt. schools.

N. Y., Lancaster—High School—Bd. Educ. having plans prepared by J. C. Blaby, archt., for 3 story brick addition. About $65,000.

N. Y., Middletown—Hospital—State Hospital Comn., Albany, had plans prepared by L. F. Pilcher, state archt., Albany, for 40 x 320 ft. chronic building, with 3 wings, brick, concrete foundation, for Middletown State Hospital, here. About $400,000.

N. Y., New York—Auditorium—Mount Sinai Hospital, 100th St. and Madison Ave. soon lets contract building 2 story, 100 x 120 ft., brick and steel, brick foundation. About $150,000. A. W. Brunner, 101 Park Ave., archt. and engr. Noted May 22.

N. Y., New York—Loft, etc.—G. Ker, Inc., 350 West 38th St., had plans prepared by G. H. Van Auken, archt., 1265 Bway., for 5 story, brick and steel loft and garage, rein.-con. flooring, concrete foundation, at 354 West 37th St. About $70,000.

N. Y., New York—Office and Loft—Severence & Van Allen, archts. and engrs., 4 West 37th St., receive bids about June 20, building 2 story, 28 x 83 ft., brick and steel, concrete foundation, at 37 Water St., for Baker, Carver & Morrell, 39 Water St. Noted Mar. 6.

N. Y., New York—Office—P. Chubb, 5 South William St., had plans prepared by A. C. Jackson, archt. and engr., 501 5th Ave., altering 6 story brick and steel, at 54 Stone St. About $75,000.

N. Y., New York—Office—Larimore & Co., 1 West 40th St., having plans prepared by Zipkes, Wolff & Kudroff, archts. and engrs., 25 West 42nd St. for 6 story, 34 x 100 ft. brick and steel, brick foundation, at 15-17 West 46th St. About $80,000.

N. Y., Watertown—School—Bd. Educ. having plans prepared for 24 room brick school on Cooper St., cost $300,000; 8 room brick addition to school on Lansing St., $75,000. E. W. Sayles, city engr. Noted May 29.

N. J., Newark—Bank—City Trust Co., Roseville Ave. plans to build bank on 50 x 100 ft. site. About $50,000. Architect not selected.

N. J., Trenton—Hospital—Bd. Freeholders Mercer Co. having plans prepared by H. F. Harris, engr., 759 Stuyvesant Ave., for tubercular hospital here. About $200,000.

Pa., Butler—School—Boro. of Windora, near here, having plans prepared by W. P. Hutchins, archt. and engr., Connestoga Bldg., Pittsburgh, for 2 story, 55 x 75 ft., fireproof, concrete foundation.

Pa., Phila.—Art Museum—H. Trumbauer, archt., Land Title Bldg., soon lets contract building 425 x 550 ft. concrete at Fairmont Park, for city.

W. Va., Fairmont—Dormitory—State Bd. Control, Charleston, soon receives bids building 2 story, brick at Normal School here. About $95,000. R. A. Gillis, Fairmont, archt.

Fla., Miami—Hotel—C. G. Fisher & J. J. Allison, Indianapolis, Ind., plan to build 6 or 7 story, 110 x 488 ft., rein.-con., at Alton Beach. Price & McLanahan, 908 Bellevue Court, Phila., archts.

Fla., Miami—Theatre—C. G. Fisher, 434 North Capitol Ave., Indianapolis, Ind., plans to build 2 story, 55 x 125 ft., rein.-con., at Alton Beach. Price & McLanahan, 908 Bellevue Court, Phila., Pa., archts.

Ala., Birmingham—Store—H. Abramson, 2122—2nd Ave., plans to build 50 x 140 ft., fireproof. About $100,000. Architect not selected.

O., Cincinnati—Office and Theatre—B. F. Keith Co., 519 Walnut St., receives bids in July building 12-story, 120 x 200 ft., concrete and steel, rein.-con. flooring, concrete foundation, on 5th and Walnut Sts. About $1,250,000. Rapp & Rapp, 190 North State St., Chicago, archts.

O., Cleveland—Commercial—J. Glick, 10022 Euclid Ave., plans to build 2 story, 80 x 270 ft., concrete, steel and brick, here. About $150,000. Architect not selected.

O., Cleveland—Mercantile, etc.—E. Zweig, 1384 West 6th St., having plans prepared by H. A. Cone, archt., 1328 Schofield Bldg., for 2 story, 40 x 115 ft., concrete, steel and brick mercantile building and garage, at 620 Frankfort Ave. About $50,000.

O., Cleveland—Commercial—W. Vretman, 413 Engineers Bldg., had plans prepared by Whitworth & Johnson, archts., 413 Engineers Bldg., for 2 story, 95 x 180 ft. concrete, steel and brick, concrete foundation, on West 117th St. and Lorain Ave. About $125,000. Noted May 15.

O., Springfield—Hospital—Ohio Masonic Home, Natl. Pike West, plans to build hospital. About $150,000. P. H. Dorn, supt.

O., Springfield—Office—Springfield Metallic Casket Co., Center St., plans to build 3 story, 52 x 150 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Center and Columbia Sts. About $60,000. R. C. Gotwald, Springfield, archt.

O., Willowby—School—Bd. Educ., c/o C. F. Kendall, Court House, Painesville, plans to build 2 story, 80 x 140 ft., rein.-con., steel and brick, here. F. C. Warner, 768 Hippodrome Annex Bldg., Cleveland, archt.

Mich., Cedar Bank (Forsyth P. O.)—School—State Bd. Control, Capitol, Lansing, plans to build State Training School, to include 2 story, 38 x 120 ft. administration building, 3 dormitories, each 2 story, 38 x 179 ft., with wings 38 x 74, and central heating plant, rein.-con., brick and stone, rein.-con. flooring, concrete foundation. About $500,000. B. Wickham, secy. E. A. Bowd, 127 Allegan St., W., Lansing, archt.

Mich., Ferndale—(Royal Oak P. O.)—High School—Village having plans prepared by G. Haase, archt., Kresge Bldg., Detroit, for 2 story, rein.-con., brick and steel. About $100,000. Noted Sept. 12.

Ill., Belleville—High School—Bd. Educ. having plans prepared for high school. Bonds for $198,000 voted for project. Noted May 15.

Ill., Chicago—Club—Illinois Women's Athletic Club, 17 North State St., having plans prepared by Marshall & Fox, archts., 721 North Michigan Blvd., for 12 story, 125 x 220 ft. brick and steel, concrete foundation, on Rush and Pearson Sts. About $1,000,000.

Ill., Chicago—Mercantile—Chicago Title & Trust Co., 69 West Washington St., soon lets contract building 6 story, 70 x 80 ft. brick and steel, concrete foundation, on Michigan Ave. and Lake St. About $200,000. J. Hunt, 30 North Michigan Ave., archt. Noted May 22.

Ill., Chicago—Office—Chicago Butter & Egg Bd., 136 West Lake St., plans to build 10-story, 55 x 80 ft., on South Water and Wells Sts. About $100,000. Lewis & Doherty, 35 North Dearborn St., archts.

Ill., Chicago—Theatre—Balaban & Katz, Central Park Theatre, having plans prepared by Rapp & Rapp, archts., 180 North State St., for 4 story, 125 x 175 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on 63rd St. and Cottage Grove Ave. About $1,000,000.

Ill., Chicago—Theatre, Stores, etc.—R. Levine, 6957 South Halsted St., receives bids about July 1, building 3 story, 175 x 175 ft. fireproof construction, rein.-con. flooring, concrete foundation, on Halsted and 70th Sts. About $225,000. J. L. Koster, 6957 South Halsted St., archt.

Wis., Chetek—School—Bd. Educ. receives bids in July, building 2-story, 54 x 94 ft., rein.-con. and brick, rein.-con. flooring, brick foundation. About $52,000. A. Babcock, clk. W. L. Alban, 347 Endicott Bldg., St. Paul, Minn., archt.

Wis., Clintonville — Bank — Dairyman's State Bank plans to build 2-story, 60 x 110 ft. brick, brick foundation on Main St. About $80,000. Architect not selected.

Wis., Janesville—Hospital—Mercy Hospital, 516 North Washington St., soon lets contract building 2-story, 50 x 90 ft., rein.-con., brick and steel addition, concrete foundation. About $75,000. Backer & Pfaller, M. & M. Bank Bldg., Milwaukee, archts.

Wis., Manitowoc—Club—Aerie Order of Eagles plan to build 2-story, 60 x 90 ft. brick and stucco, on 10th St. About $50,000.

Wis., Merrill—Church, etc.—Merrill Presbyterian congregation soon receives bids building 1 and 2 story concrete brick and stone church, school and manse. About $50,000. A. D. Miner, secy. Leibert & Leibert, 1st Natl. Bank, Milwaukee, archts.

Wis., Milwaukee—Business—Kesselman-O'Driscoll Co., 258 West Water St., having plans prepared by W. W. Ahlschlager, archt., 111 West Washington St., Chicago, for 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, on West Water and Wells Sts. About $50,000.

Wis., Milwaukee—Market—M. Tullgren & Sons, archts., 1st Natl. Bank, soon lets contract building 1 and 2 story, 125 x 300 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 3rd and Garfield Aves. About $150,000. Owner's name witheld.

Wis., Milwaukee—Office—Vilter Mfg. Co., 872 Clinton St., having plans prepared by Westinghouse, Church, Kerr & Co., engrs., 37 Wall St., New York City, building 3-story, 70 x 120 ft., rein.-con. and brick. About $50,000.

Wis., Milwaukee—Store—Gimbel Bros., 3-5 Grand Ave., soon lets contract building 6 story, 75 x 130 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation. H. J. Esser, Camp Bldg., archt.

Wis., Montfort—School—Bd. Educ. having plans prepared by J. R. and E. J. Law, archts., 620 Gay Bldg., Madison, for 2-story, 76 x 100 ft. About $70,000.

Wis., Racine—Bank and Office—Racine City Bank, 1345 Washington Ave., had plans prepared by Van Ryn & DeGelleke, archts., Caswell Blk., Milwaukee, building 2 story, 40 x 85 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, at 1345 Washington Ave. About $75,000. W. G. Gittings, pres. Noted Feb. 20.

Wis., Superior—School—Bd. Educ. soon lets contract building 3 story, 94 x 188 ft. About $250,000. L. A. Nichols, secy. F. E. Johnson, Wisconsin Bldg., archt.

Wis., Wausau—Theatre—G. Schoebow, c/o Bijou Theatre, plans to build 1 story, 70 x 120 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation. About $75,000. H. G. Lotter, 304 West Water St., Milwaukee, archt.

Ia., Clinton—High School — Bd. Educ. plans to build 2 story, fireproof, rein.-con. and brick. About $300,000. Miller, Fullenwider & Dowling, 6 North Michigan Ave., Chicago, archts.

Minn., Eveleth—Temple—Eveleth Lodge, No. 239, A. F. & A. M., soon lets contract building 2 story, 60 x 66 ft. rein.-con. and brick. About $50,000. E. H. Berg, Eveleth, archt.

Minn., Minneapolis—Office—Nonpartisan Leader, 312 Hackney Bldg., St. Paul, plans to build 6 story on 6th Ave., S. and 5th St. About $500,000.

Buildings (Continued)

Minn., Minneapolis — Theatre — J. W. Cohen, 238 Plymouth Bldg., Minneapolis, soon receives bids building 2 story, 132 x 157 ft., concrete, brick and steel, on 14th St. and Nicollet Ave. About $150,000. Buchner & Orth, St. Paul, archts.

Minn., St. Hilaire—School—C. Swanson, clk. bd. educ., receives bids about June 8, building 2 story, 57 x 90 ft. About $50,000. Sund & Dunham, 512 Essex Bldg., Minneapolis, archts. Noted May 8.

Minn., St. Paul—School—Bd. Educ. soon receives bids building 3 story, 40 x 65 ft., concrete and brick, brick foundation, on Van Dyke, Argyle and Chatsworth Sts. About $65,000. Foley Realty & Security Co., 209 Gilfillan Bldg., archts. and engrs.

Minn., Waseca—Hospital—City plans to build hospital. About $50,000. Architect not selected.

Kan., Anthony—School—Bd. Educ. soon lets contract building 2 story, 72 x 119 ft. rein.-con. and brick. About $100,000. W. Mampe, 559 Sheidley Bldg., Kansas City, Mo., archt.

Kan., Arkansas City — Church—Central Christian congregation soon lets contract building 2 story, 66 x 114 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation. About $75,000. W. L. McAtee, Arkansas City, archt.

Kan., McPherson — Science Hall — McPherson College having plans prepared by W. E. Hulse & Co., archts. Hutchinson, for Science Hall. About $60,000.

Kan., Wichita—Mausoleum—Amer. Cemetery Co., c/o G. A. Saxton, secy., 310 North Roosevelt Ave., having plans prepared by S. Lovell, archt., 30 North Michigan Ave., Chicago, for concrete and stone on 21st and Hillside Ave. About $100,000.

S. D., Alexandria—School—Bd. Educ. having plans prepared by Graber & Hellerberg, archts., Columbus, Neb., building 2 story, brick, stone and rein.-con. About $65,000.

S. D., Erwin—School—Bd. Educ. having plans prepared by K. T. Snyder, engr., 933 Plymouth Bldg., Minneapolis, Minn., building 2 story, 65 x 134 ft., brick, rein.-con. and steel, rein.-con. flooring. About $100,000.

N. D., Beach—School—City purchased site and having plans prepared for 2 story, 82 x 115 ft. About $60,000. Architect not selected.

N. D., Bismarck—Memorial—State Legislature appropriated $200,000 to build memorial to soldiers and sailors on capitol grounds. Architect not selected.

Mo., Chaffee—Hotel—Lindsay Architectural Co., archts., 261-2 McCoy-Tanner Bldg., Sikeston, receives bids about July 15, building 4 story, 86 x 120 ft., rein.-con., fireproof, rein.-con. flooring, concrete foundation, here, for Union Bldg. Co., Chaffee. About $125,000.

Mo., Fulton—Exchange—City plans election to vote on $50,000 bonds to build municipal telephone exchange. W. R. Pemberton, clk.

Mo., St. Louis—Schools—Bd. Educ. plans to build nine 1, 2 and 3 story, concrete and brick schools. Work to extend through period of 5 years. About $5,429,900. R. M. Milligan, Bd. Educ. Bldg., archt.

Tex., Bowie—High School—Bldg. School Trustees plan to issue $150,000 bonds to build school.

Tex., Ft. Worth—Church—Mount Zion Baptist congregation plans to build church on Rosedale St. and Evans Ave. About $50,000.

Tex., Ft. Worth—Memorial—Tarrant Co. Memorial Assn. plans to construct memorial building. W. A. Hanger, pres.

Tex., Hallettsville—School—Independent School Dist. voted $65,000 bonds to build and equip school. F. Lacy secy.

Tex., Hillsboro—Church—Central Presbyterian congregation plans to build. About $50,000.

Okla., Oklahoma—Schools—Bd. Educ. plans to build Lincoln School, cost $90,500; Jefferson School, $90,500; Westwood School, $25,200; Lee Junior High School, $165,000; Junior High School Northeast, $165,000; Junior High School Northwest, $165,000; also additions to Putnam Heights School, $29,400; Culbertson School, $33,000; Lowell School, $29,400; Hawthorne School, $20,500; Whittier School, $29,400; Willard School, $24,100; Wheeler School, $29,400; Walnut Grove School, $13,000. Layton & Smith, 701 Southwestern Reserve Bank Bldg., archts.

Okla., Vinita—Court House—Craig Co. having plans prepared by Layton & Smith, archts., 701 Southwest Reserve Bank Bldg., Oklahoma City, for 3-story, 75 x 100 ft. brick, stone and rein.-con., rein.-con. flooring, concrete foundation. About $150,000.

Idaho, Nampa—Sanitarium—State Dept. Pub. Wks., Capitol, Boise, plans to add 2 new wings to State Sanitarium, here. About $100,000. Address J. K. White, Boise, comr.

Idaho, Payette—School—City voted $75,000 bonds, to build high school in Dist. No. 32. Noted Apr. 3.

Ariz., Mesa—High School—School Trustees having plans prepared by N. F. Marsh, archt., 211 Bway. Central Bldg., Los Angeles, for addition to school and auditorium. About $80,000. Noted May 8.

Wash., Seattle—Store—B. Farrar, c/o Burke & Farrar, New York Blk., plans to build 2 story, 60 x 80 ft., mill construction, concrete foundation, on 7th and Olive Sts. About $50,000. G. W. Lawton, Alaska Bldg., archt.

Ore., Corvallis—Laboratory—Bd. Regents State Agricultural College soon lets contract building 2 story, 56 x 220 ft. brick and mill construction laboratory, on college campus. About $130,000. J. V. Bennes, 1040 Chamber Commerce Bldg., Portland, archt. Noted Apr. 17.

Ore., Heppner—Home—B. P. O. E. of Heppner plan to build 2-story, 60 x 126 ft., brick. About $50,000. J. V. Bennes, Chamber Commerce Bldg., Portland, archt.

Ore., Heppner—Hotel—Heppner Hotel Co. plans to build 3 story, 62 x 126 ft., brick. About $80,000. J. V. Bennes, Chamber Commerce Bldg., Portland, archt.

Ore., Marshfield—Armory—State Legislature, Portland, soon receives bids building 2 story, 105 x 120 ft., brick, concrete foundation, here. About $50,000. Clausen & Claussen, Macleay Bldg., Portland, archts. Noted Mar. 13.

Ore., North Bend—Hotel—R. Banks and Simpson Estate Co., both of North Bend, are back of project to build hotel. About $100,000. J. A. Smith, secy. chamber commerce, interested.

Ore., Pendleton—Hotel—W. N. Matlock Estate having plans prepared by R. W. Hatch, archt., Despain Bldg., for 5-story, 50-room, brick addition to Hotel Pendleton, on Main and Water Sts.

Ore., West Linn—School—Bd. Educ. soon lets contract building 2-story, 78 x 130 ft. brick and concrete, concrete foundation. About $50,000. Tourtellotte & Hummel, McKay Bldg., Portland, archts.

Cal., Antioch—Hall, Fire House and Jail—City having plans prepared by B. G. McDougall, archt., Sheldon Bldg., San Francisco, for 2 story, concrete and brick on 3rd and H Sts. About $55,000. Noted May 22.

Cal., Fresno—Schools—City election June 12 to vote on $1,200,000 bonds to build high school, intermediate school and junior college; also $880,000 for elementary schools.

Cal., Hemet—School—Hemet Union High School Dist. plans to build school. About $75,000. O. B. Waite, principal.

Cal., Merced—Theatre—C. H. Douglas having plans prepared by A. W. Cornelius, archt., Merchants Natl. Bank Bldg., San Francisco, for 1-story, 75 x 150 ft., concrete or brick, on 17th and N Sts. About $50,000.

Cal., Modesto—Schools—School Trustees having preliminary plans prepared by J. J. Donovan, archt., Oakland, for grammar school and addition to high school. About $150,000. Bonds will be voted for project.

Cal., Orland—School—School trustees plan to purchase site and build addition to school to include gymnasium, auditorium and manual training departments. About $70,000.

Cal., Pasadena—See "Industrial Works."

Cal., San Francisco—School—Bd. Pub. Wks. having plans prepared by J. R. Miller, archt., Lick Bldg., for Jefferson School on 19th Ave. near Judah St. T. Reardon, chn.

Cal., San Francisco—High School—Bd. Pub. Wks. having plans prepared by J. Reid, Jr., archt., 1st Natl. Bank Bldg., for high school on North Beach High School site. About $50,000.

Cal., Santa Ana—Hotel—Santa Ana Hotel Corp., Santa Ana, having plans prepared by M. Hunt, archt., Hibernian Bldg., Los Angeles, for hotel here. About $125,000.

N. S., Halifax—Church—Kay Grove congregation had plans prepared by A. R. Cobb, Tramway Bldg., for 60 x 75 ft. concrete, brick and steel. About $80,000.

N. B., St. John—Detention Dept. Pub. Wks., Ottawa, soon lets contract for steel and brick immigration detention building. About $150,000.

Que., Cap de Madeleine—Academy and School—Roman Catholic School Comm. plans to build stone, brick and steel academy and school. Cost $50,000 and $8000 respectively. J. Bourque, secy.

Que., St. Felix de Kingsey—School Bd. plans to build school. About $50,000.

Ont., Alexandria—Hospital—A. Chisolm, having plans prepared by K. G. Rea, archt., Beaver Hall Hill, Montreal, Que., for hospital. About $75,000.

Ont., Kingston—School—Bd. Educ. plans to build steel and brick, concrete foundation, on Princess St. About $100,000. Power & Dreaver, 81 Brock St., archt.

Ont., London—Store and Office—T. F. Kingsmill, 130 Dundas St., having plans prepared by W. G. Murray, archt., Dominion Savings Bldg., for 3 story, brick. About $100,000. Noted May 15.

Ont., Orillia—Memorial Hospital—Orillia Hospital Bd. having plans prepared by E. G. Bird, archt., 6 King St. W., Toronto, for 2 story, fireproof. About $80,000.

Ont., Toronto—Office, etc.—Western Canada Floor Mills Co., 74 King St., E., soon lets contract building office, warehouse and stables. About $50,000. Sproat & Rolph, 36 North St., archts.

Ont., Toronto—Theatre—Paramount Film Co., 21 Adelaide St., W., having plans prepared by J. M. Jeffrey, archt., Confederation Life Bldg., for concrete, brick and steel vaudeville and motion picture theatre on Victoria St. About $600,000.

Ont., West Hill—High School—Bd. School Trustees plans to build 3 story, brick and steel, concrete foundation. About $75,000. Address D. McLean.

BIDS DESIRED

R. I., Barrington—School—Until June 8, by town, building 2 story, brick and steel, concrete foundation. About $50,000. F. S. Peck, chn. comn. W. R. Walker & Son, 17 Custom House St., Providence, archts. Noted Apr. 10.

N. Y., Brooklyn—Theatre—Until June 6, by Carlson & Wiseman, archts., 220 Henry St., building 1 story, brick and steel, brick foundation, at 285 Flatbush Ave., for St. Marks Amusement Co. About $150,000. Noted Mar. 27.

N. Y., New York—Exchange—Until June 11, by McKenzie, Voorhees & Gemelin, archts. and engrs., 1123 Bway, building 4 story, 103 x 115 ft. brick and steel, brick foundation, on 167th St. and Grand View Pl., for New York Telephone Co., 15 Dey St. About $391,000. Noted May 8.

N. Y., New York—Office and Loft—Until June 7, by R. H. Almiroty, archt., 220 5th Ave., building 6 story, 27 x 100 ft. brick and limestone, brick foundation, at 31 West 57th St., for Sohmer & Co., 315 5th Ave. About $75,000. Noted May 22.

N. J., Camden—Bank—Until June 16, by P. Merz, archt., Pennsylvania Bldg., Phila., building 1 and 3 story, rein.-con., for Bway. Trust Co., 1009 Bway. About $200,000. Noted May 29.

S. C., Hartsville—High School—Until June 12, by J. W. Goodwin, chn. school comrs., high school building, 2 story, 100 x 150 ft., timber, with auditorium, also 80 x 401 ft. brick addition to grammar school on Coker St. C. C. Wilson, 804 Palmetto Bldg., Columbia, archt

Buildings (Continued)

Ill., Chicago—Hospital—T. R. Bishop, archt., 35 South Dearborn St., receiving bids building 2-story, 40 x 120 x 125 ft., brick and timber, L shaped, concrete foundation, at 8015 Luella Ave., for South Shore Hospital. About $65,000.

Ill., Chicago—Hospital—D. S. Klafter, archt., 64 West Randolph St., receiving bids building 6-story, 36 x 150 ft., rein.-con. addition, rein.-con. flooring, concrete foundation, on Hoyne and Monroe Sts., for West End Hospital, 2058 West Monroe St. About $100,000.

Ill., Oak Park—Bank—Puckey & Jenkins, archts., 6 North Michigan Ave., Chicago, receiving bids building 2-story, 60 x 95 ft. fireproof bank, rein.-con. flooring, concrete foundation, on Oak Park Ave. and North Blvd., for Avenue State Bank, 126 North Oak Park Ave. About $80,000. Noted Dec. 19.

Minn., Duluth—Store—Until June 12 by Oliver Iron Mining Co., Wolvin Bldg., building 2 story, 118 x 129 ft., rein.-con. and brick. About $65,000. S. S. Rumsey, Wolvin Bldg., archt.

Minn., Fergus Falls—Employees—State Bd. Control, St. Paul, receiving bids for 2 story, 45 x 140 ft., rein.-con. and brick employees' building at State Hospital. About $50,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt. C. L. Pillsbury Co., 805 N. Y. Life Bldg., Minneapolis, engr.

Minn., Greenbush—School—Until June 9, by G. A. Brandt, clk. bd. educ., building 2 story, rein.-con. and brick, brick foundation. About $50,000. Foss & Foss, St. Cloud, archts. Noted Mar. 27.

Minn., Hastings—Dormitory—State Bd. Control, Capitol, St. Paul, receiving bids for 2-story, 50 x 120 ft., rein.-con., brick and stone. About $60,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt. Noted May 15.

Minn., Montevideo—Church—J. M. Mason, pastor Norwegian Lutheran congregation, Montevideo, receiving bids for 2½-story, 54 x 90 ft., brick and hollow tile. About $50,000. P. O. Moe, 3425 Harriet Ave., Minneapolis, archt.

Tex., Ranger—Church and Parsonage—Until June 15, by Methodist congregation, building 80 x 100 ft. concrete and brick. About $50,000. E. M. Wilson, pastor. R. H. Hunt, Dallas, archt.

Tex., Rosebud—High School—Until June 15, by Independent School Dist., rebuilding school destroyed by fire. About $75,000. R. G. Stillwell, secy. M. W. Scott & Co., 412½ Franklin St., Waco, archts.

Idaho, Lewiston—Administration—Until June 9, by E. A. Bryan, state comr. educ., Moscow, building Administration Bldg. at State Normal School, here. About $150,000. C. Richardson, Moscow, archt.

Ariz., Morenci—High School—Until June 17, by School Dist., building 1-, 2- and 3-story, rein.-con., concrete foundation. About $150,000. G. L. Wilson, Monrovia, Cal., archt. Noted Apr. 3.

Cal., Los Angeles—Hospital—Until June 16, by Bd. Supervs. Los Angeles Co., building 1 story psychopathic ward with 2 wings, 30 x 269 ft. each, rein.-con. and timber, rein.-con. flooring, concrete foundation at county farm. A. M. McPherrin, clk.

Ont., London—School—Until June 14, by W. G. Murray, archt., Dominion Savings Bldg., building 2 story, brick, concrete foundation, for Town Council. About $95,000.

Ont., St. Catharines—Schools—Until June 9, by A. E. Nicholson, archt., 46 Queen St., building two 1-story scho is for School Bd. About $60,000. Noted May 8.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Roxbury (Boston P. O.)—School—City received bids May 27 building 2-story, brick, concrete foundation, on Dearborn St., from J. Bowen Co., 14 Custom House, Boston, $156,296; McGahey & O'Connor, 551 Columbia Rd., Boston, $164,748; C. S. Cunningham & Sons, 7 Water St., Boston, $169,786. Noted May 22.

ROAD WORK—COLUMBUS, TEX.

Bids were received by Commissioners of Colorado Co. for constructing Highway No. 4, from (A) Haden & Austin, 727 Kress Bldg., Houston; (B) M. M. Craven; (C) W. T. Montgomery, Alamo Bank Bldg., San Antonio. The unit bids were as follows:

	A	B	C
4 acres clearing and grubbing	$150.00	$125.00	$75.00
32,261.2 cu.yd. unclassified excavation	.30	.33	.35
1,930.8 cu.yd. ditching	.30	.27	.30
23,236.5 cu.yd. borrow embankment	.24	.25	.28
5,000 cu.yd. stripping gravel pits	.25	.28	.30
598.6 cu.yd. team excavation	.40	.40	.40
196.4 cu.yd. hand excavation	.75	.85	.75
41,673 cu.yd earth overhaul	.02	.02	.02
140 stations scarifying old gravel	3.00	4.00	6.00
700 (1,000 gal.) sprinkling	2.50	5.00	3.50
114 hours extra rolling	2.50	4.00	3.00
10,112.0 cu.yd. gravel at pits	.10	.11	.10
153.5 lin.ft. 24-in. c.-i. pipe	4.50	3.25	3.50
44.5 lin.ft. 18-in. c.-i. pipe	3.50	2.55	3.00
485 lin.ft. relaying pipe	1.00	.35	.25
8.81 mi. road machine work	400.00	240.00	450.00
99.58 cu.yd. 1:2:3 concrete pavement	20.00	19.90	22.00
25,591.7 cu.yd. gravel laid down at nearest delivery point	1.38	1.58	1.20
35,703.7 surfacing 1st ½ mi. hauling	.55	.52½	.60
35,703.7 placing surfacing	.08	.05½	.15
326,640.1 gravel overhaul	.10	.11	.10
302.3 class "A" reinforced concrete	20.00	22.00	25.00
32.82 class "B" reinforced concrete	20.00	20.00	20.00
25,704.7 lb. reinforcement	.07½	.06	.08
6,760 lin.ft. standard guard fence	.50	.50	.75
Extended totals	$111,702	$114,884	$118,480

ROAD WORK—KALISPELL, MONT.

Bids were received by Bureau Public Roads, U. S. Department of Agriculture, Missoula, for constructing North Fork of Flathead National Forest Road Project, Flathead Co., from (A) Carlson & Norman Co., Spokane, Wash.; and (B) Rich & Markhus, Prosser, Wash. The unit bids were as follows:

	A	B
101 acres clearing	$110.00	$150.00
2,860 cu.yd. rock excavation	2.75	2.00
2,860 cu.yd. rock excavation (exp. furn.)	2.60	1.80
103,500 cu.yd. common excavation	.65	.73
1,000 cu.yd. overhaul	.05	.05
29.5 mi. finishing earth road	150.00	200.00
825 cu.yd. class "C" concrete bridge abutments	40.00	30.00
825 cu.yd. cement rubble masonry bridge abutments	25.00	20.00
8,365 sq.ft. log cribbing bridge abutments	.50	.80
1,400 sq.ft. log cribbing whale cr. piers	.50	1.50
120 cu.yd. rock fill in log pier	3.50	2.00
330 cu.yd. class "C" concrete culvert H. W	50.00	30.00
730 cu.yd. dry rubble masonry culvert H. W	10.00	10.00
415 cu.yd. cement rubble masonry culverts H. W	23.00	20.00
2,130 lin.ft. 12-in. concrete pipe	3.90	2.50
1,000 lin.ft. 18-in. concrete pipe	6.64	3.75
100 lin.ft. 24-in. concrete pipe	9.82	5.50
260 lin.ft. 36-in. concrete pipe	19.56	7.00
18 lin.ft. 42-in. concrete pipe	30.00	7.50
18 lin.ft. 48-in. concrete pipe	30.00	8.00
2,130 lin.ft. 12-in. corrugated pipe	2.80	2.00
1,000 lin.ft. 18-in. corrugated pipe	4.19	3.00
100 lin.ft. 24-in. corrugated pipe	6.45	4.50
260 lin.ft. 36-in. corrugated pipe	8.75	7.50
18 lin.ft. 42-in. corrugated pipe	9.89	8.50
18 lin.ft. 48-in. corrugated pipe	11.43	10.00
2,130 lin.ft. 1 ft. x 2 ft. log culverts	2.00	1.00
1,000 lin.ft. 2 ft. x 2 ft. log culverts	2.50	1.25
100 lin.ft. 2 ft. x 3 ft. log culverts	3.50	1.40
260 lin.ft. 3 ft x 3 ft. log culverts	3.75	1.50
18 lin.ft. 3 ft. x 4 ft. log culverts	4.50	1.75
18 lin.ft. 4 ft. x 4 ft. log culverts	5.50	2.00
2 12-ft. span log bridge	60.00	200.00
1 10-ft. span log bridge	50.00	175.00
1 70-ft. span log bridge	1,400.00	2,500.00
1 60-ft. span log bridge	1,200.00	2,250.00
4 30-ft. span log bridge	500.00	1,000.00
2 24-ft. span log bridge	120.00	800.00
2 20-ft. span log bridge	100.00	500.00
7 16-ft. span log bridge	80.00	250.00
51 acres grubbing	240.00	200.00
51 acres grubbing (exp. fur.)	220.00	190.00
Extended totals	$124,004	$139,438

★**Mass., Wellesley** (Boston P. O.)—Dormitory—Wellesley College let contract building 4-story, 31 x 71 ft. brick and concrete, concrete foundation, on campus, to C. S. Cunningham & Son, 7 Water St., Boston. About $150,000. Noted May 22.

★**Conn., New Haven**—Bank—Pallotti-Andretta Co., 630 Chapel St., let contract building 3-story, 76 x 90 ft., brick, steel and concrete, rein.-con. flooring, concrete foundation, on Olive and Chapel Sts., to M. J. Gibbud Co., 109 Water St. About $100,000. Noted May 29.

★**Conn., New Naven**—Hospital and Chapel—St. Raphael Hospital, 1442 Chapel St., let contract building 4 story, 40 x 140 ft. brick and steel addition, rein.-con. flooring, concrete foundation, on Chapel St., to Sullivan & McKeown, 843 Dixwell Ave. About $65,000. Noted May 22.

★**Conn., Wallingford**—Office—R. Wallace & Sons Mfg. Co., Quinnipiac St., let contract building 3-story, 79 x 133 ft. brick and concrete, rein.-con. flooring, concrete foundation, to T. J. Pardy Constr. Co., 15 Fairfield Ave., Bridgeport. About $60,000. Noted Feb. 6.

★**N. Y., Brooklyn**—Synagogue and School—New Hebrew School, 505 Ashford St., will build 3-story, 46 x 70 ft., brick and steel, brick foundation, on Ashford St. and Sutter Ave. About $60,000. Work will be done by day labor Noted May 22.

Buildings (Continued)

N. Y., Cohoes—High School —Bd. Educ. received bids May 21, building high school, general contract from Hanrahan Bros., 336 Ewime Ave., Schenectady, $157,767; heating, from C. Dwyer, 18 Chuctanunda St., Amsterdam, $29,253. Noted May 1.

★**N. Y., Endicott**—School—Bd. Educ. let general contract building 3 story, 80 x 154 ft. addition to North Side School, to Kline & Griffin, Binghamton, $97,040; heating, to Shapeley & Wells, 118 Washington St., Binghamton, $11,771. Work to be done under supervision of Comad & Tiffany, architects, 515 Phelps Bldg., Binghamton.

★**N. Y., Long Island City**—Loft, etc.—L. Gold, 44 Court St., Brooklyn, will alter 4 story, 100 x 350 ft. brick and steel loft and factory building on Pierce and 8th Sts. Work will be done by day labor.

★**N. Y., New York**—Bath—I. Kobre will build 1-story rein.-con. and steel addition to turkish baths, on 111th to 112th Sts. and Lenox Ave. About $55,000. Work will be done by day labor.

★**N. Y., New York**—Institute—League of Political Educ., 15 West 44th St., will build 5-story, 100 x 125 ft., brick and steel, concrete foundation, on 43rd St. and Bway. About $150,000. Work will be done by day labor, under supervision of R. B. Smith, engr., 30 East 42nd St. Noted May 8.

N. Y., New York—Office—J. Cullman, 161 Front St., let contract altering exterior and interior of 7-story brick and steel, at 135 Front St., to Stuart-Willey Co., 1123 Bway. About $60,000. Noted May 29.

★**N. Y., New York**—Office—D. L. Ellman & Co., 1517 East 49th St., let contract building 10-story, 34 x 100 ft., brick and steel, concrete foundation, on 49th St., between Madison and 5th Aves., to H. Davis, 30 East 42nd St. About $150,000. Noted May 8.

N. Y., New York—Office—Lehn & Fink, 120 William St., let contract building 15 or 20-story brick and steel, rein.-con. flooring, concrete foundation, on Greenwich and Morton Sts., to G. R. Davis & Co., 30 East 42nd St. About $1,000,000. Cost plus percentage basis. Noted Apr. 10.

★**N. Y., New York**—Office—Merchant Marine House, Inc., 56 Beaver St., will alter 4½-story, brick and steel, at 56 Beaver St. About $125,000. Work will be done by day labor under supervision of Zeisler & Kerrigan, archts. and engrs. 53 Beaver St. Noted May 15.

★**N. Y., New York**—Stores—Level Realty Co., 935 Intervale Ave., will build group of 2-story, 60 x 115 ft. brick and steel stores, brick foundation, on Fordham Rd. and Grand Concourse. About $55,000. Work will be done by day labor.

★**N. J., Elizabeth**—Exchange—New York Telephone Co. 15 Dey St., New York City let contract building 3-story, 100 x 100 ft., brick and steel, concrete foundation, at 1196 East Grand St., here, to L. Hommedieu, 1 Madison Ave., New York City. Noted Apr. 24.

★**Pa., Phila.**—Stations—Dept. City Transit, 1211 Chestnut St., let contract building brick, steel and rein.-con. station on northeast and southwest corners of Kensington and Allegheny Aves., including removal of existing buildings on these sites. Contr. No. 565, to J. Connor, 1317 Arch St., $52,340; brick, steel and rein.con. station on southwest and southeast corners of Kensington Ave. and Somerset St., and removal of existing buildings on these sites. Contr. No. 564, to Standard Constr. Co., 1713 Sansom St., $57,575. Noted May 15.

★**Pa., Yorkhaven**—Library—City let contract building 2 story, 43 x 72 ft. brick and stone, brick foundation, to J. W. Hartley, York.

★**W. Va., Princeton**—School—Bd. Educ. Kanawha Dist. No. 1, Montgomery, let contract building 2-story, 88 x 128 ft., here, to Charleston Concrete Constr. Co., Charleston. About $90,000.

★**W. Va., Weirton** — Church — Sacred Heart of Mary congregation let contract building 2-story, 52 x 116 ft. brick, concrete foundation, to J. A. Romano, Burgettstown, Pa. About $75,000.

★**O., Cleveland**—Commercial—Avenue Co., 4500 Euclid Ave., let contract building 2 story, 56 x 96 ft., concrete, steel and brick, at 2024 East 46th St., to A. E. Banks, 1523 Oregon Ave. About $50,000. Noted May 29.

★**O., Cleveland**—Office—Jordan Motor Co., 1070 East 152nd St., let contract building 2 story, 100 x 125 ft., rein.-con., steel and brick, on East 152nd St., to Hunkin-Conkey Co., 601 Century Bldg. About $75,000.

★**O., Columbus**—Bank and Office—Franklin Loan & Savings Co., 347 South High St., let contract building 6 story, 25 x 90 ft., rein.-con., steel and brick, concrete foundation, on High and Main Sts., to J. W. Heckart, Ruggery Bldg. About $115,000. Noted May 1.

★**O., Dayton**—Theatre—Schwind Realty Co., Schwind Bldg., let contract building 100 x 120 ft., rein.-con., rein.-con. flooring, concrete foundation, on 1st and Main Sts., to Danis-Hunt Constr. Co., 1st and Webb Sts. About $150,000. Noted Feb. 27.

★**Ind., Indianapolis** — Asylum — Indiana Epileptic Village let contract building 1-story, brick addition, to Cornell Eng. Co., 2611 Cornell Ave. About $65,000. Noted Sept. 12.

★**Ind., Lafayette**—Art—State Bd. Agriculture, Capitol, Indianapolis, let contract constructing woman's art building at State Fair Grounds, to A. W. Stoolman, U. & I. Bldg., Champaign, Ill. About $110,000.

★**Ill., Chicago** — Bank — Independence State Bank, 1215 South Kedzie Ave., let contract building 3-story, 66 x 118 ft., fireproof, rein.-con. flooring, concrete foundation, on 12th St. and Kedzie Ave, to R. Sollit & Sons Constr. Co., 5 South Wabash Ave. About $125,000. Noted Mar. 27.

★**Ill., Chicago** — Church — Fourteenth Church Christ Scientist, c/o N. M. Dunning, archt., 310 South Wabash Ave., let contract building 1-story, 105 x 140 ft. stone and terra cotta, rein.-con. flooring, concrete foundation on Paulina and Sunnyside Aves., to C. B. Johnson & Son, 111 West Washington St. About $175,000. Noted May 1.

★**Ill., Chicago**—School—Catholic Bishop of Chicago, State and Superior Sts., let contract building 2-story, 110 x 135 ft. fireproof, rein.-con. flooring, concrete foundation, at 3825 South Washtenaw St., to Broline-Nolan Co., 8 South Dearborn St. About $75,000.

★**Ill., Chicago**—Stores and Offices—M. S. Plotke, 2519 North Clark St., let contract building 2 story, 100 x 125 ft. brick and timber, concrete foundation, on Sheridan Rd. and Montrose Blvd., to Barrett Constr. Co., 77 East Washington St. About $100,000.

★**Ill., South Chicago**—(Chicago P. O.)—Church—Worthman & Steinbach, archts., 155 North Clark St., Chicago, let contract for 1-story, 48 x 105 ft., brick and stone with steel trusses, concrete foundation, on East 103rd St. and Ave. H, for Bethlehem Lutheran Church, c/o archts., to W. Feigenbaum, 2505 West Division St., Chicago. About $75,000. Noted May 1.

Wis., Jefferson—Sanitorium—Bd. Supervs. Jefferson Co. received lowest bid building 1 and 2 story rein.-con. and brick, concrete foundation, from Appleton Constr. Co., Odd Fellows Bldg., Appleton, $85,500 Noted Dec. 26.

★**Wis., Madison**—School—Bd. Educ. let contract building 2 story, 61 x 110 ft., school, on 7th St., to J. Findorff. About $90,000.

★**Wis., Milwaukee**—Store—Shuster Dept. Store, 3rd and Garfield Aves., let contract building 2 story, 125 x 170 ft. rein.-con. and brick addition, to P. Riesen & Sons, 1018 Humboldt Ave. About $50,000.

★**Wis., Milwaukee**—Theatre—Rice & J. J. Schwartz, 2614 State St., let general contract building 1 story, 87 x 120 ft. brick and steel, rein.-con. flooring, concrete foundation, on 5th Ave. and Lincoln Sts., to P. Nagtegal, 11 32nd St. About $125,000.

★**Wis., Plain**—Church, etc.—St. Luke's congregation let contract building church, school, residence and rectory, to Wisconsin Constr. Co., Physics Bldg., Madison. About $90,000. Noted Sept. 12.

★**Wis., Waukesha** — High School — Bd. Educ., Y. M. C. A. Bldg., let contract building rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to G. L. Dwinnell, 424 College Ave.; about $186,000. Work includes remodeling old high school and building new one.

★**Minn., Victoria**—School—Bd. Educ. let general contract building 2-story, 54 x 108 ft., concrete, brick and steel, to C. W. Peterson, Luck, Wis. About $52,000. Noted Apr. 24.

N. D., Grand Forks—Theatre and Store—A. J. Kavanaugh received only bid building 3 story, brick, at 413-15 De Mers Ave., from Northern Constr. Co., 9 North 8th St. About $100,000. Noted Apr. 3.

★**Mo., Joplin**—Cathedral—Scottish Rites F. & A. M., let contract building 2-story, 125 x 150 ft., rein.-con., concrete foundation, on 5th and Byers Aves., to C. S. Bate, Frisco Bldg. About $250,000, cost plus percentage basis. Noted May 22.

★**Mo., St. Louis**—Hotel—Argonne Realty Co., 1407 North Bway., let contract building 5-story, 62 x 219 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, at 3664 Washington Ave., to F. C. Cornet, 3703 Washington Ave. About $250,000. Noted Mar. 20.

★**Tex., Abilene**—Science—School Bd. Simmons College, let contract building science school, to Harvey Wooldridge Co., Ft. Worth. About $83,000. Noted Apr. 10.

★**Okla., Oklahoma** — Office — Magnolia Petroleum Co. let contract building 5 story, brick, stone and rein.-con., rein.-con. flooring, at 7th St. and Bway., to C. M. Dunning Constr. Co., 2023 North Shartel St. About $200,000.

★**Ariz., Phoenix**—School—School Trustees let contract building 2-story, 80 x 210 ft., concrete, brick and hollow tile, concrete foundation, to Edwards & Wildey Co., 515 Black Bldg., Los Angeles, $159,000. Noted Feb. 13.

★**Wash., Seattle**—Store—H. F. Ostrander, Henry Bldg., let contract building 2 story, 108 x 113 ft., terra cotta and brick, at 220 Pine St., to W. T. Butler, Central Blvd. About $80,000.

Cal., Los Angeles—School—Bd. Educ. received bids building (a) 2 story, brick class room and auditorium building and 2 story manual training, domestic science and cafeteria building, (b) 1 story brick primary school, rein.-con. flooring, concrete foundation, on Nevin Ave., from K. R. Bradley, 1925 East 16th St., (a) $128,000, (b) $24,800; J. V. McNeil, 736 H. W. Hellman Bldg., (a) $136,900, (b) $27,500; J. P. Dawson, 702 Fay Bldg., (a) $139,416, (b) $26,218. Noted May 8.

★**Cal., Quincy**—Courthouse and Jail—Bd. Supervs. Plumas Co. let contract building 3-story, rein.-con., to E. W. Book, 2912 G St., Sacramento, $145,647. Noted May 22.

★**Que., Chicoutimi**—Church—Cathedral Church of Chicoutimi let contract building church, to A. C. Givoux, St. Casimir. About $175,000. Noted Mar. 20.

★**Ont., Guelph**—School—Bd. Educ. let contract building brick school, to Schutz Bros. & Co., 35-59 Albion St., Brantford. About $50,000. Noted May 1.

★**Ont., Scarborough**—School—School Bd. let general contract building 3 story, fireproof, to Teagle & Son, 310 Davenport Rd., Toronto. About $62,000. Noted Mar. 20.

Federal Government Work

PROPOSED WORK

Mass., Boston—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3941. About $350,000.

R. I., Coddington Point—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to erect 100,000 gal water tank and tower, here; Spec. 3937. About $12,000.

Federal Government Work (Continued)

N. J., Cape May—Cell House and Fence—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3943. About $38,000.

Pa., Ft. Mifflin—Tank and Tower—Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build 3000 gal. tank on 80 ft. tower, here; Spec. 3919. Bids will be received at local yard.

Pa., Phila. — Assembly Shop — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build extension to assembly shop at Aircraft Sta., here; Spec. 3927. About $700,000.

Pa., Phila.—Elevator Shafts—Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build elevator shafts for ways No. 2 and 3, here; Spec. 3915. About $6000.

Pa., Phila.—Fire Escape—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build at Navy Yard, here; Spec. 3932. About $2500.

Pa., Phila.—Storage Buildings with Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3942. About $350,000.

Md., Annapolis—Painting Towers — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to paint four 600 ft. radio towers, here; Spec. 3925. About $12,000.

Md., Baltimore—Dredging—U. S. Engr. Office. Custom House plans to dredge Curtis Bay Channel, Curtis Bay, involving deepening present 30-ft. channel to 35 ft. from main ship channel of Patapsco River to Baltimore & Ohio R.R. coal piers. About $250,000 appropriated for project.

Md., Indianhead—Power Plant—Bureau Yards & Docks, Navy Dept., Wash. D. C., plans to build; Spec. 3924. About $200,000.

D. C., Anacostia—Aviation Field—Constr. Div., War Dept., 7th and B Sts., S. W., Wash., plans to build, here.

D. C., Wash.—Partitions—Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build partitions in 5 story machine shop, here; Spec. 3912. About $46,500.

Va., Hampton Roads—Surfacing—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to surface aviation field, here; Spec. 3930. About $700,000.

Va., Hampton Roads—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to erect 100,000 gal. water tank and tower, here; Spec. 3936. About $12,000.

Va., Quantico — Storehouse — Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build 12 metal storehouses, here; Spec. 3916. About $30,000.

W. Va., South Charleston—Steel Sash—Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to purchase steel sash for various buildings; Spec. 3914. About $118,000.

S. C. Charleston—Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3940. About $225,000.

S. C., Paris Island—Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to erect 100,000 gal. water tank and tower, here; Spec. 3935. About $12,500.

Fla., Pensacola — Incinerator — Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build, here; Spec. 3923. About $5000.

N. D., Bismarck—Dormitory—C. Sells, comr. Indian Affairs, Wash., D. C., rejected bids received Apr. 28, building dormitory, here, Noted May 1.

Wyoming—Road Work — Bureau Pub. Rds., Denver, Colo., soon lets contract grading 21.41 mi. Buffalo-Tensleep Natl. Forest Rd., in Washakie and Big Horn Counties, involving 89 acres clearing and grubbing, 112,600 cu.yd. earth and 8100 cu.yd. rock excav. and 8 log bridges; also 22.32 mi. Buffalo Tensleep Natl. Forest Rd. Project, Buffalo-Sour Dough Sect., 38 acres clearing and grubbing, 89,500 cu.yd. earth and 6900 cu.yd. rock excav., three 30 ft. and two 20-ft. timber bridges. J. S. Bright, dist. engr.

Tex., Ft. Worth—Wells—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to drill and case 2 wells, at Helium Production plant; Spec. 3929. About $9000.

Wash., Puget Sound—Officers' Quarters—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build 2 officers' quarters, here; Spec. 3944. About $30,000.

Wash., Walla Walla—Road Work—Dept. Interior, Wash., D. C., had plans prepared building Dixie Rd., from Walla Walla to Dixie, Walla Walla Co., 18 ft. wide. About $140,000.

Ore., Jacksonville—Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, 628 Post Office Bldg., Portland, plans to improve 2.4 mi. Hays Hill Rd., Siskiyou Nat. Forest Project, Jackson Co. About $52,500. L. I. Hewes, dist. engr.

Cal., San Diego—Pipe Line—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build gas pipe line system, here; Spec. 3939. About $89,000.

H. T., Pearl Harbor—Hospital—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3931. About $250,000.

BIDS DESIRED

Mass., Boston—Addition to Shipfitters' Shop—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here; Spec. 3920. About $315,000; $10 deposit required for plans and spec.

R. I., Newport—Dredging—Until June 27, by U. S. Engr. Office, Newport, dredging in Pawtucket River; advertised in this issue.

N. Y., Brooklyn—Building, etc.—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing building "F" and altering stairway in main hospital; Spec. 3892. About $828,000. Noted May 15.

N. Y., Brooklyn—Heating Plant and Distributing System—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending heating plant and distributing system at Naval Hospital, here; Spec. 3891. About $830,000. Noted May 15.

N. Y., New York—Chimney—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building chimney for boiler plant; Spec. 3606. About $15,000; $10 deposit required for plans and spec. Noted Feb. 20.

N. Y., New York—Crane Runways—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building crane runways for shipbuilding slip No. 1 and for bulkhead handling and storage building. Spec. 3678.

N. Y., New York—Cranes—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing electric traveling cranes at Navy Yard, here; Spec. 3933. About $200,000; $10 deposit required for plans and spec.

N. Y., New York—Dredging—Until July 2, by U. S. Engr. Office, 39 Whitehall St., dredging in Shrewsbury River and Shoal Harbor and Compton Creek, N. J. Bids will be received on either or both jobs; advertised in this issue.

N. Y., New York—Elevators—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at shipbuilding way No. 1; Spec. 3934. About $15,000; $10 deposit required for plans and spec.

N. Y., New York—Fence—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building fence at Marginal Parkway, here; Spec. 3888. About $15,000; $10 deposit required for plans and spec. Noted May 8.

N. Y., New York—Rebuilding Shipbuilding Way—Until June 25 by Bureau Yards & Docks, Navy Dept., Wash., D. C., rebuilding shipbuilding way No. 1, here; Spec. 3590. About $400,000; $20 deposit required on plans and spec. Noted Oct. 31.

N. Y., South Brooklyn—Boat Storage Building—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3889. About $85,000; $10 deposit required for plans and spec. Noted May 22.

N. J., Cape May—Roads and Walks—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Section Base, here; Spec. 3881. About $80,000; $10 deposit required for plans and spec. Noted May 8.

Pa., Phila.—Dike—Until June 10, by U. S. Engr. Office, Phila., building earth dike at Old Man Point, N. J.

Pa., Phila.—Pattern Shop—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3478. About $300,000; $20 deposit required for plans and spec. Noted Sept. 26.

Pa., Phila.—Steel—Until July 7, by Lighthouse Supt., Phila., furnishing fabricated steel for 72-ft. steel tower, delivered to Horseshoe Range West Group Lighthouse; advertised in this issue.

Md., Baltimore—Dredging—Until June 9, by U. S. Engr. Office, Custom House, dredging in Southwest Baltimore Harbor (Spring Gardens), involving deepening present 27-ft. channel to 35 ft. from main ship channel below Ft. McHenry to Ferry Bar, 27-ft. channel to be provided from Ferry Bar to Western Maryland R.R. terminal at Port Covington; existing anchorage basin to be cleared out and widened from 1000 to 1600 ft. Work involves 1,000,000 cu.yd. dredging. About $200,000 appropriated project.

D. C., Anacostia—Earth Fill—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., building earth fill, here; Spec. 3897. About $10,000; $10 deposit required for plans and spec. Noted May 22.

D. C., Wash.—Furnaces—Until June 13, by Dist. Comrs., Dist. Bldg., furnishing and delivering 8 hot-air furnaces.

D. C., Wash.—Laboratory—Until June 9, by U. S. Constr. Quartermaster, War College, Wash., Barracks, building 2-story, 44 x 121 ft. photographic laboratory. Noted Feb. 27.

D. C., Wash.—Pavement—Until June 18, by Bureau Yards & Docks, Navy Dept., paving with vitr. brick at Marine Barracks; Spec. 3913. About $3000; $10 deposit required for plans and spec.

D. C., Wash.—Sewage Disposal System—Until June 23, by Dist. Comrs., Dist. Bldg., building substructure for Rock Creek Pumping Sta., of sewage disposal system; advertised in this issue. Noted Apr. 24.

D. C., Wash—Wall—Until June 19, by Dist. Comrs., Dist. Bldg., reconstructing portion of wall on Canal Rd., between Aqueduct Bridge and Foundry Branch.

Va., Hampton Roads—Bridge—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building transfer bridge at Naval Operation Base, here; Spec. 3907. About $125,000; $30 deposit required for plans and spec.

Va., Hampton Roads—Buildings, Railroad, Sewerage and Water Systems—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Submarine Base, here; Spec. 3909. About $250,000; $30 deposit required for plans and spec. Noted May 29.

Va., Hampton Roads—Pier—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building merchandise pier, here; Spec. 3918. About $850,000; $30 deposit required for plans and spec.

Va., Newport News—Boiler—Until June 20, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing in post office and custom house, here.

Va., Quantico—Tank—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building elevated steel tank, here; Spec. 3906. About $5000. Noted May 22.

Va., Quantico—Wharf—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3910. About $140,000; $10 deposit required for plans and spec. Noted May 29.

S. C., Charleston—Building—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building amusement building, here; Spec. 3908. About $37,000; $10 deposit required for plans and spec. Noted May 29.

Federal Government Work (Continued)

S. C., Paris Island—Dredging—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging, here; Spec. 3898. About $71,500, $10 deposit required for plans and spec.

S. C., Port Royal—Dredge—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing 12-in. hydraulic dredge, here; Spec. 3898. About $71,000; $10 deposit required for plans and spec. Noted May 22.

Ky., Louisville—Lock and Abutment—Until June 19, by U. S. Engr. Office, Louisville, building lock and abutment for Dam No. 45, Ohio River, at Addison, Ky.; advertised in this issue.

Wis., Tomah—Post Office—Until July 1, by J. A. Wetmore, supervy. archt., treas. dept., Wash., D. C., building post office, here. About $47,000.

Cal., San Diego—Administration Building, Roads and Walks—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here; Spec. 3922. About $305,000; $30 deposit required for plans and spec.

Cal., San Diego—Distributing System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building electric distributing system, here; Spec. 3921. About $58,000; $10 deposit required for plans and spec.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., New London—Dredging—U. S. Engr. Office received bids May 28, dredging in Greenwich Harbor, from J. P. Randerson, 51 State St., Albany, N. Y., $33,320; G. W. Sunderlin, 83 Fairfield Ave., Bridgeport, $44,880; C. F. Bickel Co., Inc., 30 Church St., New York City, $46,920. Noted May 8.

★**N. J., Lake Denmark**—Magazine Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contarct completing magazine storehouses No. 3 and 4, at Naval Ammunition Depot, here, to Speedwell Constr. Co., 22 University Pl., New York City. About $18,500 (45 days). Noted May 29.

★**Pa., Phila.**—Steam Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing steam distributing system at Navy Yard, here, to Almiral & Co., 1 Dominick St., New York City. About $212,318 (time as specified). Noted May 8.

★**Pa., Phila.**—Tunnel—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building tunnel for pipe, here, to E. C. Fish, 704 Real Estate Trust Bldg. About $90,275 (120 days). Noted May 8.

D. C., Wash.—Bridge—Comr. Indian Affairs, Dept. Interior, Wash., received bids May 26 building bridge over Santa Clara River, Shivwits Indian Reservation, Utah, from Omaha Structural Steel Bridge Co., 420 Bee Bldg., Omaha, Neb., $20,000; Steel Constn. Co., 1055 Beck St., Salt Lake City, Utah, $24,828; Monarch Eng. Co., West Colfax Ave. and Larimer St., Denver, Colo., $7394, exclusive of abutments and grading. Noted May 8.

★**D. C., Wash.**—Paving—Dist. Comrs. Dist. Bldg., let contract paving various streets and avenues, with sheet asphalt, to Cranford Paving Co., 2620 E St., N. W., $45,000. Noted May 29.

D. C., Wash.—Paving Material—Dist. Comrs., Dist. Bldg., received bids May 21, furnishing cement during fiscal year beginning July 1, 1919 and ending June 30, 1920, from Natl. Mortar Co., 101 M St., N. E., $2.18 per bbl.; Security Lime & Cement Co., Colorado Bldg., $2.84 per bbl.; $.15 per sack, alternate paper packing, $2.49 per bbl., 5% discount 10 days; Rosslyn Steel & Cement Co., Woodward Bldg., cloth sacks, $2.84; bags $.15, $.05 per bbl., discount in 10 days.

SEWERS—BARBERTON, OHIO

Bids were received by city, May 17 (lowest 3), for constructing north end lateral sewers, from (A) W. J. Irwin & Son, Greenville; (B) W. H. Hunt, Akron; (C) Irving Nawig, Barberton. The unit bids were as follows:

	A	B	C
27,100 cu.yd. earth excavation, 0-6 ft. cut	$0.75	$1.18	$1.00
6,120 cu.yd. earth excavation, 6-12 ft. cut	2.10	1.25	1.50
485 cu.yd. earth excavation, 12-18 ft. cut	3.00	2.00	2.00
50 cu.yd. earth excavation, 18-22 ft. cut	4.00	5.00	2.50
100 cu.yd. rock excavation	4.00	5.00	3.50
100 lin.ft. 6-in. vit. pipe sewer, laid	.30	.10	.25
32,880 lin.ft. 8-in. vit. pipe sewer, laid	.40	.19	.36
780 lin.ft. 10-in. vit. pipe sewer, laid	.45	.30	.60
2,160 lin.ft. 12-in. vit. pipe sewer, laid	.55	.40	.75
20 cwt. waterproof jointing compound	6.00	160.00	6.00
127 standard manholes, 0-8 ft. deep	60.00	50.00	60.00
26 standard manholes, 0-10 ft. deep	75.00	60.00	65.00
6 standard manholes, 10-12 ft. deep	90.00	80.00	75.00
7 standard manholes, 12-14 ft. deep	100.00	90.00	80.00
2 standard manholes, 14-16 ft. deep	110.00	125.00	...
1 standard manhole, 18-20 ft. deep	130.00	150.00	...
1 standard manhole, 20-22 ft. deep	150.00	150.00	...
5 lampholes	15.00	30.00	8.00
945 6-in. Y's on 8-in. pipe	1.00	.84	.85
10 6-in. Y's on 10-in. pipe	1.25	1.25	1.45
40 6-in. Y's on 12-in. pipe	1.50	1.60	1.75
20 8-in. stubs in place	1.00	.84	.45
8,200 lin.ft. 6-in. vit. pipe house connections	.25	.12	.37
950 6-in. vit. pipe specials	.60	.50	.60
60 cu.yd. concrete masonry, class 3	12.00	10.00	9.00
25 M ft.b.m. sheeting left in place	40.00	20.00	17.00
100 lin.ft. 8-in. underdrain	.40	.19	.25
25 cu.yd. gravel refill	3.00	2.50	1.50
200 hours common labor	.60	.50	.50
250 sq.yd. restoring brick roadway	3.00	4.00	2.25
300 sq.ft. restoring brick walks	.10	.30	.20
39,000 sq.ft. restoring cement walks	.15	.20	.20
8,100 sq.ft. restoring stone walks	.14	.20	.15
100 lin.ft. restoring curbing	.25	.80	.50
50 cu.yd. cinder filling	3.00	.60	1.00
Extended totals	$75,010	$75,781	$76,797

Furnishing asphalt paving cement, from Standard Oil Co., Pratt & Commerce St., Baltimore, Md., $18.61 per ton, carload lots; Barber Asphalt Paving Co., Land Title Bldg., Phila., Pa., $40.09 per ton; U. S. Asphalt Refining Co., 90 West St., New York City, $19.90 per ton.

Furnishing sewer brick, from Thornton Fire Brick Co., Clarksburg, W. Va., $33.50 per M.; Leighton Fire Clay Co., McKeesport, Pa., $31 per M.

Furnishing asphalt paving block, (1) 2 x 5 x 12 in.; (2) 3 x 5 x 12 in., from Hastings Paving Co., 25 Broad St., New York City, (1) $95 per M.; (2) $129 per M., f.o.b. Wash.; Atlantic Asphalt Block Co., Inc., 100 Bway., New York City, (1) $100 per M.; (2) $134.50 per M., alternate f.o.b. Wash., (5) $97.25; (6) $120.50.

Furnishing terra cotta pipe, (1) 6 in.; (2) 12 in.; (3) 18 in.; (4) 21 in.; (5) 8 x 6 Y bends; (6) 12 x 6 Y Bends; (7) 18 x 8 in.; (8) 12 x 10 in.; (9) 15 x 10 in.; (10) 15 x 12 in.; (11 10 x 6 in. tees; (12) 12 x 6 in.; (13) 12 x 10 in. tees; (14) 6 in. ⅛ bends; (15) 6 in. ¼ bends; (16) 10 in. ⅛ bends; (17) 10 in. ¼ bends; (18) 12 in. ⅛ bends; (19) 12 in. ¼ bends, from

Amer. Sewer Pipe Co., 30 Church St., New York City, (1) $0.18; (2) $0.50; (3) $0.985; (4) $1.48; (5) $1.29; (6) $2.49; (7) $4.62; (8) $2.49; (9) $3.33; (10) $2.33; (11) $1.94; (12) $2.49; (13) $2.49; (14) $0.63; (15) $0.63; (16) $1.47; (17) $1.47; (18) $1.89; (19) $1.89.

East Ohio Sewer Pipe Co., (1) $0.14; (2) $0.50; (3) $1; (4) $2; (5) $1; (6) $2.90; (7) $5.50; (8) $2.90; (9) $3.90; (10) $3.90; (11) $2.30; (12) $2.90; (13) $2.90; (14) $0.54; (15) $0.54; (16) $1.26; (17) $1.26; (18) $2.16; (19) $2.16.

T. Somerville Co., Washington, D. C., (1) $8; (5) $0.75; (14) $0.30; (15) $0.34; (16) $1.10; (18) $140.

Evans Clay Mfg. Co., (1) $0.171 per ft.; (2) $0.60-75; (3) $1.175; (4) $2; (5) $1.064; (6) $2.43; (7) $4.70; (8) $2.43; (9) $3.384; (10) $3.384; (11) $1.596; (12) $2.43; (13) $2.43; (14) $0.684; (15) $0.684; (16) $1.596; (17) $1.596; (18) $2.43; (19) $.43. Noted May 8.

★**Va., Hampton Roads**—Air and Water Systems—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing high pressure air and water systems at Submarine Base, here, to Almiral & Co., Inc., 2 Dominick St., New York City. About $42,300 (120 days). Noted May 15.

Va., Hampton Roads—Medical Storage Building—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 26, building here, (1) (work complete) from H. S. Roberts, 1123 Bway., New York City, (1) $26,100, (90 days); (2) add $4000, (30) days); (3) add $3500. W. P. Thurston Co., 1103 East Main St., Richmond, (1) $28,000, (95 days); (2) $3800, (20 days); (3) $3300. Noted May 8.

Va., Hampton Roads—Motor Generator Sets and Switchboard—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 26, installing at submarine base, here. (1) (work complete) from General Electric Co., River Rd., Schenectady, N. Y., (1) $43,750 (150 days); Westinghouse Electric & Manufacturing Co., 803 Hibbs Bldg., Wash., D. C., (1) $47,133 (150 days); (2) $2350. Noted May 8.

Va., Hampton Roads—Steel Water Tank and Tower—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 26, building 150,000 gal. steel water tank and tower at Naval Operating Base, here, (work complete), from Pittsburgh Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $10,780 (120 days), alternate, $11,580 (120 days); Chicago Bridge Iron Co., 30 Church St., New York City, $13,440, (130 days). Noted May 15.

W. Va., Charleston—Roof Decks—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 26, building gypsum roof decks at Naval Ordnance Plant, here, (work complete) from Federal Cement Tile Co., 110 South Dearborn St., Chicago, (1) $198,000, (25 to 30 days); (2) $33,600, (10 days); (3) $47,000, (35 days). H. H. Robertson Constr. Co., 511 Wood St., Pittsburgh, Pa., (1) $239,211, (90 days); (1a) $42,413, (35 days); (2) $185,856, (87 days); (2a) $33,307; (3) $53,355, (54 days); (3a) $36,602; (3c) $16,752; (3d) $25,859, (8 days). Keystone Gypsum Fireproofing Corp., 47 West 24th St., New York City, (2) $168,500, (82 days); (2a) $33,000, (13 days). H. W. Johns-Manville, 296 Madison Ave., New York City, (3) $65,191, (5 to 45 days); (3a) $12,950, (18 days); (3b) $44,021, (64 days); (3c) $20,313, (26 days); (3d) $30,268, (44 days). Noted May 15.

★**S. C., Charleston**—Storehouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building fixed ammunition storehouse, here, to H. S. Roberts & Co., 1123 Bway., New York City. About $45,355 (140 days). Noted May 15.

★**Fla., Pensacola**—Crane—Bureau Yards and Docks, Navy Dept., Wash., D. C., let contract installing one 20-ton electric traveling bridge crane, in wet basin boat shed, here, to Chesapeake Iron Wks., Westport, Md., $9464. Noted May 22.

Federal Government Work (Continued)

Ia., Fairport—Laboratory—Comr. Fisheries, Dept. Commerce, Wash., D. C., received bids May 26 building laboratory at Biological Sta., here, from Walsh Constr. Co., 114½ West 3rd St., Davenport, $82,600; J. W. Hopp, 403 Granby Bldg., Cedar Rapids, $84,000; J. Soler, 5th and Cedar St., Davenport, $88,000. Noted May 1.

Kan., Eldorado—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids May 29, building post office, here, (1) limestone; (2) sandstone, from Henry & Hatfield Constr. Co., 120 South Meridian St., Indianapolis, Ind., (1) $68,233, alternate $67,039; (2) $70,230, alternate $69,039; W. O'Neil & Son, Faribault, Minn., (1) $69,217, alternate $68,366; C. E. Goodhan, Chadron, Neb., (1) $76,000; (2) $73,500. Former bids rejected. Noted Apr. 10.

Mont., Hamilton—Road Work—Bureau Pub. Rds., Missoula, received bids May 22, grading 5.1 mi. East Fork Biterroot Nat. Forest Rd., involving 15 acres clearing, 9500 cu.yd. earth and 1000 cu.yd. rock excav., (a) log culverts, (b) corrugated pipe culverts, from E. V. Morrison, Darby, (a) $14,943; (b) $16,227; P. O'Connor, Missoula, (a) $15,076; (b) $16,026; Lord Constr. Co., Hamilton, (a) $14,821; (b) $16,385. Noted Apr. 10 under "Montana."

★**Tex., Honey Grove**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract building, here, to Cooper & Lund, 142 Market St., Newark, N. J., $42,230. Noted May 29.

★**Tex., North Ft. Worth**—Helium Production Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building helium production plant, here, to Central Contg. Co., 520 Beatty Bldg., Houston, $448,000 (120 days); also item (17) $1 per cu.ft., (16) $4 per running ft. Noted May 29.

★**Idaho—Road Work**—Bureau Pub. Rds., Missoula, Mont., let contract grading 10 mi. Galena Summit Sect. Long Valley Highway, to C. Gossi, Caldwell, $46,000; 23 mi. Banks-Smith's Ferry Sect. Long Valley Rd., to Morrison Knudson Co., Broadway, Boise, $140,000.

Idaho, Grangeville—Road Work—Bur. Pub. Rds., Missoula, Mont., received bids May 22, grading (a) 8 mi., (b) 23 mi. Kooskia Lowell Natl. Forest Rd. Project, from Carlson-Norman Co., Realty Bldg., Spokane, Wash., (a) $83,019; (b) $153,347; Rich & Markhus, Prosser, Wash., (a) $87,482; (b) $157,519; Lord Constr. Co., Hamilton, Wash., (a) $95,055; (b) $170,075. Noted May 8.

Idaho, Sand Point—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids May 22, building, here, (a) limestone, (b) sandstone, from W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., (a) $86,000; (b) $88,400; C. E. Goodhand, Chadron, Neb., (a) $89,150. Noted Apr. 17.

★**Washington**—Road Work—Bur. Pub. Rds., Dept. of Agriculture, 628 Post Office Bldg., Portland, Ore., let contract improving 39.5 mi. highway on west side of Glacier Nat. Park, 12 ft. wide, to Carlson-Norman Co., Realty Bldg., Spokane, with concrete culverts and rock abutments, $150,000; metal culverts, $125,000.

Cal., Ft. Bidwell—School—C. Sells, comr. Indian Affairs, Dept. Interior, Wash., D. C., received only bid May 27, building school, here, from W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., $22,470 (160 days). Noted May 8.

P. I., Cavite—Power Plant Equipment—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 26, installing here, (1) (work complete) from Babcock & Wilcox Co., North Amer. Bldg., Phila., Pa., (2) $31,721; (2a) $12 per day. General Electric Co., (River Rd., Schenectady, N. Y.,) (3) $47,150 alternate; $47,400; (3a) $20 per day, Westinghouse Electric & Mfg. Co., Southern Bldg., Wash., D. C., (3) $47,366.50, (150 days); (3a) $25 per day; (4) $32,768, (150 days) (4a) $25 per day; (5) $1875. C. C. Moore & Co. submitted bid at Mare Island, Cal. Amounts not wired to Bureau, Wash., D. C. Noted May 15.

Miscellaneous

PROPOSED WORK

Playground — Charlestown (Boston, P. O.), **Mass.**—City having plans prepared improving Winthrop playground. About $15,000. C. E. Putnam, 33 Beacon St., Boston, engr.

Retaining Wall—Providence, R. I.—See "Industrial Works."

Pavilion—New Haven, Conn.—See "Buildings."

Drydock—Oswego, N. Y.—Hinckly Towing Co. having plans prepared for drydock, marine railways and ship repair yard here. About $100,000.

Subway—Erie, Pa.—City plans to build Division St. Subway. About $27,000. New York Central R. R. will build abutments. E. G. Lynch, city engr.

Garbage Wagons—Danville, Ill.—City plans to purchase several horse drawn or motor driven garbage dump wagons. H. H. Edwards, city engr.

Pavilion — Great Falls, Mont. — Live Stock Assn. plans to build pavilion for show and selling purposes. About $25,000.

Oil Tanks—Miles City, Mont.—Montana Oil Co. plans to build one 12,000 gal. and two 16,000 gal. capacity oil tanks. About $15,000.

Telephone Lines—Miles City, Mont.—L. P. Teague is interested in company being formed to build telephone lines from here to Jordan, Broadus and Ashland. About $100,000.

Natatorium—Portland, Ore. — J. W. Couglin plans to build 100 x 100 ft. concrete natatorium to include 54 x 75 ft. tank, on Bway. and Madison St. About $50,000. W. W. Lucius, Lewis Bldg., engr.

Wharf—Newport Beach, Cal.—Newport Beach syndicate having plans prepared by P. Kressley, engr., Newport Beach, for 60 x 200 ft. timber wharf.

BIDS DESIRED

Castings, etc.—New York, N. Y.—Until June 11, by N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., furnishing and delivering, unloading, stacking and storing, c.i. valves, valve box castings, valves, double nozzle fire hydrants.

Road Material—Ebensburg, Pa.—Until June 9, by H. T. Jones, controller Cambria Co., furnishing 15,000 gal. surface treatment for macadam roads.

Bakery Ovens—Lorain, O.—Essig Baking Co. receiving bids building 2 rein.-con., steel and brick ovens, rein.-con. flooring, concrete foundation. About $30,000. Noted May 15.

Asphalt—St. Paul, Minn.—Until June 9, by H. W. Austin, city purchasing agt., City Hall, furnishing 40 tons Trinidad asphalt.

Grain Tanks—Carthage, Mo.—Until June 15, by McDaniel Milling Co., building ten 30 x 120 ft. and four 30 x 100 ft. rein.-con. tanks. About $60,000. Architect not selected.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Dock, etc.—Chelsea** (Boston, P. O.), **Mass.**—Winnisimmet Shipyard Co. will build new rein.-con. marine railway dock and repair basins. About $400,000. Work will be done by day labor. W. R. Green, pres.

★**Tank—New Britain, Conn.**—Landers, Frary & Clark, Commercial St., let contract building 6 x 28 ft. brick and rein.-con. tank and 14 x 23 ft. pump house, to J. H. Grozier Co., 721 Main St., Hartford. About $14,000.

★**Manholes, etc.—New York, N. Y.**—F. L. Dowling, pres. Manhattan Boro., let contract furnishing and delivering 100 casting standard manhole heads, 600 of standard manhole covers, 200 standard receiving basin hoods and plates, 100 standard receiving basin covers, 100 flat corner grate bars, 75 flat straight grate bars, etc., to J. Fox & Co., 253 Bway., $7374. Noted May 15.

★**Paving Material—New York, N. Y.**—H. Bruckner, pres. Bronx Boro., let contract furnishing and delivering 200,000 gal. asphaltic road oil, to Standard Oil Co., 26 Bway., $9430. Noted May 1.

★**Piles, etc. St. George, S. I., N. Y.**—J. H. Delaney, comr. plant and structures, Municipal Bldg., New York City, let contract furnishing and delivering piles to St. George Terminal of Staten Island Ferry, E. R. Mill & Lumber Co., $32,194; hardware, to L. C. Hardy & Co., 114 Liberty St., New York City, $3023. Noted May 29.

★**Platforms—Phila., Pa.**—Dept. City Transit, 12-- Chesnut St., let contract furnishing and erecting platforms and connecting stations on Kensington Ave., at Allegheny Ave. and at Somerset St., Contr. No. 531, to F. J. Boas, 201 North Broad St.; cost $105,850. Noted May 15.

Water Pipe and Specials—Springfield, O.—City received bids May 27 furnishing 120 tons of (a) 6 in. pipe, (b) 16 in. pipe, (c) specials, from Amer. Cast Iron Pipe & Fdry. Co., Birmingham, Ala., (a) $50.80 per ton, (b) $51.80 per ton, (c) $105.80 per ton; Lynchburg Fdry. Co., Peoples Natl. Bank Bldg., Lynchburg, Va., (a) $50.80; U. S. Cast Iron Pipe Co., East Burlington, Burlington, N. J., (a) $51.

★**Incinerator—Danville, Ill.**—City let contract building incinerator plant to consist of two units of Superior garbage furnace, to J. W. Stokes. About $20,000.

★**Dry Dock—Oakland, Cal.**—Moore Shipbuilding Co., foot Adeline St., will build dry dock and 2 marine railways. About $2,500,000. Work will be done by day labor.

★**Wharf—San Pedro, Cal.**—Union Oil Co., 6th and Spring Sts., Los Angeles, will build 42 x 150 ft., creosoted pile wharf, "U" shaped, with legs 15 x 90 ft. each, to include timber deck and oil pipe lines. About $19,000. J. R. Reed, c/o owner, engr. Work will be done by day labor.

Tom L. Green, Consulting Engineer, Miami, Okla., would like to receive catalogs and prices from manufacturers of flush tank siphons, intermittent disposal plant siphons, sludge pumps, manhole covers and steps, sewage and water filtration equipment, oil and gas engines, pumps, motors and compressors, air receivers and other air lift equipment; also information pertaining to motors, starters, generators, panel boards and other electric equipment necessary to the installation of electric pumping and light plants.

Claiborne, Johnston & Co., Inc., 910 Garrett Bldg., Baltimore, Md., would like to receive catalogs and prices from manufacturers of equipment and supplies for engineering contractors.

Captain J. Neale, Civil Engineer-in-Chief's Dept., Room 1004, Admiralty, London, S. W. 1, England, would like to receive catalogs and prices from American manufacturers of engineering equipment and supplies.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: June 17.

Construction, Heating, etc.

Ossining, N. Y.

CONSTRUCTION WORK—Mess Hall and Kitchen Building (No. 4); Detention Building (No. 5); Outside Cell Building (No. 7); Clinic Building (No. 8); and Pump House and Reservoir;

HEATING WORK—Mess Hall and Kitchen Building (No. 4); Detention Building (No. 5); Outside Cell Building (No. 7); and Clinic Building (No. 8);

SANITARY WORK—Mess Hall and Kitchen Building (No. 4); Detention Building (No. 5); Outside Cell Building (No. 7); and Clinic Building (No. 8);

ELECTRIC WORK—Mess Hall and Kitchen Building (No. 4); Detention Building (No. 5); Outside Cell Building (No. 7); and Clinic Building (No. 8);

NEW BOILERS—Two new 400 Hp. Water Tube Boilers,

at Sing Sing Prison, Ossining, N. Y., will be received by Hon. Chas. F. Rattigan, Superintendent of State Prisons, Room 618, Hall of Records Building, Centre and Chambers Streets, New York City, until 2:30 o'clock P.M., on Tuesday, June 17, 1919, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. (5%) of the amount of the proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3229, 3230, 3231, 3232, 3233, 3220, 3223, 3226, 3252, 3221, 3224, 3227, 3222, 3225 and 3228. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the office of the Warden of Sing Sing Prison, Ossining, N. Y.; at Room 618, Hall of Records, New York City, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: May 14, 1919.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 21, 1919.—Sealed proposals will be opened in this office at 3 p.m., June 18, 1919, for furnishing the labor required in the construction complete, with materials that will be furnished by the Government, of the United States Post Office Building at Clinton, S. C. Drawings and specifications may be obtained from the custodian of the site at Clinton, S. C., or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Price, $3.60 an inch—Copy can be received until Wednesday, 10 a.m., for issue out the next morning.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

OFFICIAL PROPOSALS

Bids: June 10.

Highway Construction

Schoharie Co., N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Centre and Chambers Streets, New York City, until 11 A.M., on Tuesday, June 10, 1919, for Contract 202, for the construction of about 7¾ miles of highways, including clearing, grading, draining, building of culverts and guard-rails, around the Schoharie reservoir, in the Towns of Gilboa and Conesville, Schoharie county, Prattsville, Greene county, and Roxbury, Delaware county, New York.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders and contract drawings can be obtained at the above address, at the office of the secretary, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer, at the above address.

JOHN F. GALVIN, President,
CHARLES N. CHADWICK,
L. J. O'REILLY,
Commssioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

Bids: June 10.

Cast-Iron Pipe

THE CORPORATION OF WATERFORD, IRELAND

Tenders are hereby invited by the Corporation of the City of Waterford, Ireland, from American manufacturers for the supply of 13,000 lin.yd. of 15 in. diameter cast iron water pipes, to stand a vertical pressure of a column of water of 300 ft. The pipes to be delivered at the Quays, Waterford. Waterford is a free port.

Envelopes containing quotations to be endorsed "Water Pipes" and addressed to Thomas F. J. Higgins, Esq., Town Clerk, Town Hall, The Mall, Waterford, Ireland.

Dated this 2nd day of May, 1919.

OFFICIAL PROPOSALS

Bids: June 16.

Hydro-Electric Power Plant Construction

Marquette, Michigan.

Sealed proposals will be received by the City Commission of the City of Marquette at the office of the City Purchasing Agent, until 12 o'clock noon, June 16, 1919, for furnishing all equipment, tools, labor and material required for constructing the following specified improvements, such proposals to be publicly opened and read:

1. A hydroelectric power house, 40 x 97 of concrete and brick, including tail-race excavation in earth and rock;

2. A reinforced concrete surge tank thirty (30) feet diameter and sixty (60) feet high, including foundation;

3. Concrete foundations with timber saddles for a woodstave pipe line 90 in. inside diameter, 1800 ft. long, and 78 in. inside diameter, 285 ft. long.

Bids are to be submitted in two (2) ways:

First, on the work complete, contractor furnishing all materials.

Second, on labor and equipment, the City to furnish all materials, delivered f.o.b. Marquette, Michigan.

Separate proposals will be received for the power house building, embracing the superstructure above the main floor finished complete.

Proposals will be received for the foundation for the penstocks and separately for foundation of power house carried up to top of main floor ready to receive the brick superstructure and also including excavation for the tail-race.

Plans and specifications by Thomas W. Orbinson, Consulting Engineer, Appleton, Wisconsin, are on file at the office of Charles Retallic, Superintendent of the Department of Light and Power, Marquette, Michigan. Upon request, either or both sets will be mailed to prospective bidders on receipt of $25 for each set, which amount will be refunded on their return in good order.

Proposals for said improvement must be made in separate, sealed envelopes, marked so as to indicate improvement referred to and must be accompanied by a certified check or draft in the sum of $500, payable to the City of Marquette, as a guarantee that if bid is accepted, contract will be entered into and its performance properly secured.

The Commission reserves the right to accept or reject any or all bids.

Separate proposals will be received from pipe manufacturers for furnishing, erecting and connecting up the woodstave pipe.

CITY OF MARQUETTE.
J. F. ANDERSON,
City Purchasing Agent.

SEALED PROPOSALS will be opened by the Supt. of Lighthouses, Baltimore, Md., 2 o'clock P.M., June 12, 1919, for furnishing and placing rip rap stone at Craney Island Light Station, Va. Information upon application to the above Supt.